

**STATE OF MICHIGAN**  
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET  
 PROCUREMENT

525 W. ALLEGAN STREET  
 LANSING, MI 48933

P.O. BOX 30025  
 LANSING, MI 48909

CHANGE NOTICE NO. 005  
 to  
 CONTRACT NO. 071B0200125  
 between  
 THE STATE OF MICHIGAN  
 and

NAME & ADDRESS OF CONTRACTOR	PRIMARY CONTACT	EMAIL
Vertex Standard  1301 East Algonquin Rd. Schaumburg, IL 60196	Danny McGee	daniel.mcgee@vertexstandard.com
	PHONE	CONTRACTOR'S TAX ID NO. (LAST FOUR DIGITS ONLY)
	815-540-0400	*****5202

STATE CONTACTS	AGENCY	NAME	PHONE	EMAIL
PROGRAM MANAGER / CCI	DTMB	Gerald Leach	517-490-4148	leachg@michigan.gov
CONTRACT ADMINISTRATOR	DTMB	Mike Breen	(517) 284-7002	breenm@michigan.gov

CONTRACT SUMMARY			
DESCRIPTION: 2-Way Radios			
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
March 28, 2011	January 19, 2013	5 - 1 Year	February 5, 2016
PAYMENT TERMS		DELIVERY TIMEFRAME	
N45		NA	
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING
<input checked="" type="checkbox"/> P-card <input checked="" type="checkbox"/> Direct Voucher (DV) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
MINIMUM DELIVERY REQUIREMENTS			
NA			

DESCRIPTION OF CHANGE NOTICE				
EXERCISE OPTION?	LENGTH OF OPTION	EXERCISE EXTENSION?	LENGTH OF EXTENSION	REVISED EXP. DATE
<input checked="" type="checkbox"/>	1 year	<input type="checkbox"/>		1/19/2017
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
align="center">\$1,000,000.00		\$ 0.00	align="center">\$1,000,000.00	
DESCRIPTION: Amend contract to exercise one year option to 1/19/2017 per contract terms. Vendor also requests address change to this face cover address. All other terms and conditions remain the same.				

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VERTEX STANDARD USA, INC.  
1301 EAST ALGONQUIN ROAD, SCHAUMBURG, IL 60196  
TEL : 1-800-283-7839 - FAX : 1-847-761-4932

To whom it may concern:

Vertex Standard USA, Inc. would officially like to submit our candidacy to extend coverage under the State of Michigan contract 071B0200125. Thank you for your consideration.

Best Regards,  
Daniel McGee  
Regional Sales Manager - Central US  
*VERTEX STANDARD*



**Vertex Standard LMR Price Book: MSRP**

**Updated on 1/19/2016**

Prices may be subject to change without notice

THESE PRICE PAGES DISPLAY MANUFACTURER'S SUGGESTED RETAIL PRICING (MSRP) ONLY. FOR ADDITIONAL PRICING INQUIRIES, CONTACT YOUR RESPECTIVE REGIONAL SALES MANAGER OR CUSTOMER SUPPORT.

**Vertex Standard LMR Price Pages: MSRP**  
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**1/19/2016**

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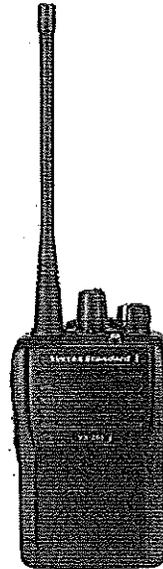
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 MSRP

## VX-261 Series

Portable  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-261 portable Standard Options:**  
 FNB-V133LI -UNI 1380 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 Antenna Selection  
 Standard 3 Year Warranty



VX-261

**Radio Features:**

- 16 Channels
- 2 Programmable Buttons
- 700mW Internal Speaker
- MDC1200 ANI Encode
- Fleetsync® ANI Encode
- DTMF ANI Encode
- 2-Tone Encode and Decode
- 5-Tone Encode and Decode
- CTCSS/DCS Encode and Decode
- Emergency
- Lone Worker
- Multi-Mode Scanning  
(Incl. Dual Watch, Priority, Follow-Me)
- ARTS TM (Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- Radio to Radio Cloning
- 3 Year Warranty

**Recommended Accessories:**

- Speaker Microphones**
- MH-360S Compact Speaker Microphone
- MH-450S Standard Speaker Microphone
- MH-45B4B Heavy Duty Public Safety Speaker Mic
- Headsets and Surveillance**
- MH-37A4B-1 Earpiece Mic, Light Duty
- VH-150A IS VOX capable lightweight headset, BTH
- VH-150B IS VOX capable lightweight headset, OTH
- MH100 Rx only Earpiece, 3.5mm for use with MH-450S
- MH-101A4B Single Wire Surveillance Kit
- MH-102A4B Two-Wire Surveillance Kit
- Multi-Unit Charger**
- VAC-6058 MUC Charger

AC128U002-VX 403-470 MHz model  
 now FCC approved and available for  
 shipping to USA customers.

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		MSRP
<b>VX-261 Series Radio Models</b>						
136-174 MHz	VHF	1-5W	16	AC128N001-VX	VX-261-D0-5	\$ 225.00
403-470 MHz	UHF	1-5W	16	AC128U002-VX	VX-261-G6-5	\$ 225.00
450-512 MHz	UHF	1-5W	16	AC128U001-VX	VX-261-G7-5	\$ 225.00

FCC INFORMATION: AX011283020 (134-174 MHz) / AX011284720 (450-512 MHz) / AX011284620 (403-470MHz) \*\* UHF 403-470 MHz Not Currently FCC approved, only for sale in Canada  
 IC INFORMATION: 10239A-11283020 (134-174 MHz) / 10239A-11284620 (403-470 MHz) 10239A-11284720 (450-512 MHz)

**VX-261 Series**  
**Portable**  
UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AS	STANDARD BATTERY FNB-V133LI-UNI (Uses VAC-UNI charger)	\$ 0.00
QA05517AA	ADD: FNB-V134LI-UNI LI-ION BATTERY 2300MAH (Uses VAC-UNI charger)	\$ 20.00

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (for use with FNB-V133LI-UNI& V134LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (for use with FNB-V133LI-UNI& V134LI-UNI)	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02816AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6" (For G7 Models)	\$ 0.00
QA02815AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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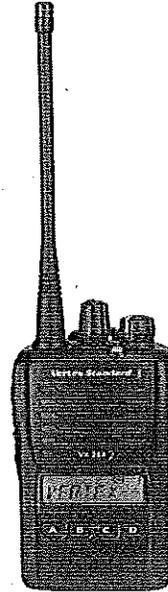
Shipping Option:

STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

## VX-264 Series Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-264 portable model standard packages include:**  
 FNB-V133LI -UNI 1380 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 Antenna Selection  
 Standard 3 Year Warranty



**VX-264**

**Radio Features:**

- 128 Channels
- 6 Programmable Buttons
- 8 Character Alpha Numeric Display
- 700mW Internal Speaker
- MDC1200 Encode: ANI, Call Alert, Sel Call, Emergency Radio Check\* (Decode functions available in future release)
- Fleetsync\* ANI Encode
- DTMF ANI Encode
- 2-Tone Encode and Decode
- 5-Tone Encode and Decode
- CTCSS/DCS Encode and Decode
- Voice Inversion Encryption
- Emergency
- Lone Worker
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me and TA Scan)
- ARTS™(Auto-Range Transpond System)
- Adjustable 1W to 5W Power Output
- BCLO, BTLO and TOT Functions
- Radio to Radio Cloning
- 3 Year Warranty

**Recommended Accessories:**

- Speaker Microphones**  
 MH-360S Compact Speaker Microphone  
 MH-450S Standard Speaker Microphone  
 MH-45B4B Heavy Duty Public Safety Speaker Mic
- Headsets and Surveillance**  
 MH-37A4B-1 Earpiece Mic, Light Duty  
 VH-150A IS VOX capable lightweight headset, BTH  
 VH-150B IS VOX capable lightweight headset, OTH  
 MH100 Rx only Earpiece, 3.5mm for use with MH-450S  
 MH-101A4B Single Wire Surveillance Kit  
 MH-102A4B Two-Wire Surveillance Kit
- Multi-Unit Charger**  
 VAC-6058 MUC Charger

AC127U002-VX 403-470 MHz model now FCC approved and available for shipping to USA customers.

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-264 Series Radio Models</b>						
136-174 MHz	VHF	1-5W	128	AC127N001-VX	VX-264-D0-5	\$ 290.00
403-470 MHz	UHF	1-5W	128	AC127U002-VX	VX-264-G6-5	\$ 290.00
450-512 MHz	UHF	1-5W	128	AC127U001-VX	VX-264-G7-5	\$ 290.00

FCC INFORMATION: AX11273020 (134-174 MHz) / AX11274720 (450-512 MHz) / AX11274620 (403-470MHz) \*\* UHF 403-470 MHz Not Currently FCC approved, only for sale in Canada  
 IC INFORMATION: 10239A-11273020 (134-174 MHz) / 10239A-11274620 (403-470 MHz) / 10239A-11274720 (450-512 MHz)

## VX-264 Series

### Portable

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

**Battery Choices:**

STDBAT0868AS	STANDARD BATTERY FNB-V133LI-UNI (Uses VAC-UNI charger)	\$ 0.00
QA05517AA	ADD: FNB-V134LI-UNI LI-ION BATTERY 2300MAH (Uses VAC-UNI charger)	\$ 20.00

**Charger Choices:**

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (for use with FNB-V133LI-UNI& V134LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (for use with FNB-V133LI-UNI& V134LI-UNI)	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

**Antenna Choices:**

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6" (For G7 Models)	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

**General Options:**

**Programming Option:**

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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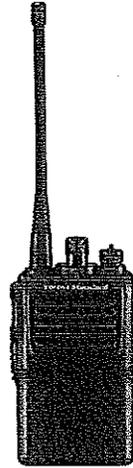
**Shipping Option:**

STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

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 MSRP

**VX-231 Series**  
**Portable**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-231 portable Standard Options:**  
 FNB-V131Li -UNI 1380 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 Antenna Selection  
 Standard 3 Year Warranty



**VX-231**

**VX-231 Radio Cancellation**  
 Last date of order for AC085U104-VX is 10/16/15. For additional details, refer to VSOL > Resource Center > Product Information > Cancellations

- Radio Features:**
- Light Weight and Compact Size
  - Rugged Construction
  - 16 Channels
  - 12.5/25 kHz Switchable Channel Spacing
  - 2 Programmable Buttons
  - CTCSS/DCS Encode and Decode
  - DTMF ANI / DTMF Speed Dial
  - 2-Tone Encode and Decode
  - Emergency
  - Lone Worker
  - Multi-Mode Scanning (incl. Dual Watch, Priority, Follow-Me)
  - ARTS TM (Auto-Range Transpond System)
  - Radio to Radio Cloning

- Recommended Accessories:**
- Speaker Microphone**
    - MH-360S Compact Speaker Microphone
    - MH-450S Standard Speaker Microphone
    - MH-45B4B Noise Canceling Speaker Microphone
  - Leather Carry Case**
    - LCC-351S Leather Case with Swivel
  - Multi Unit Charger**
    - VAC-6300B 6 Unit Rapid Charger (Use with FNB-V103LIA and FNB-V104LIA only)
  - Headsets and Surveillance**
    - MH-37A4B-1 Earpiece Mic, Light Duty
    - VH-120S Earpiece Mic w/ Palm PTT
    - VH-110S Over-head, Heavy Duty Headset
    - VH-115S Lightweight Headset w/ Boom
    - VH-130S Earpiece Mic w/ Palm PTT
    - VH-215S Lightweight Padded Headset, Single Speaker

PRODUCT DETAILS		NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		MSRP
<b>VX-231 Series Radio Models</b>						
400-470 MHz	UHF	1-5W	16	AC085U104-VX	VX-231-AG6B	\$ 225.00

FCC INFORMATION: K6610853020 (134-174 MHz) / K6610854620 (403-470 MHz) / K6610854720 (450-512 MHz)

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**VX-231 Series**  
**Portable**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

**Battery Choices:**

STDBAT0868AA	ADD: STD BATTERY FNB-V131LI-UNI 1380 MAH LI-ION (Uses VAC-UNI charger)	\$ 0.00
QA03903AA	ADD: FNB-V132LI-UNI 2300 MAH LI-ION (Uses VAC-UNI charger)	\$ 20.00
QA02674AA	ADD: FNB-V103LIA 7.4V 1380 mAh Li-Ion Battery (Uses VAC-300 charger)	\$ 8.33
QA02459AA	ADD: FNB-V104LIA 2300 mAh Li-Ion Battery (Uses VAC-300 charger)	\$ 28.33

**Charger Choices:**

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (for use with FNB-V131LI & V132LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (for use with FNB-V131LI & V132LI-UNI)	\$ 0.00
QA02594AA	ADD: VAC-300B 120V Desktop Rapid Charger (for use with FNB-V103LIA & V104LIA)	\$ 8.33
QA02630AA	ADD: VAC-300C 240V CHRGR - LI-ION ONLY (for use with FNB-V103LIA & V104LIA)	\$ 8.33
QA02589AA	DELETE: Charger	\$ (36.00)

**Antenna Choices:**

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

**General Options:**

**Programming Option:**

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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**Shipping Option:**

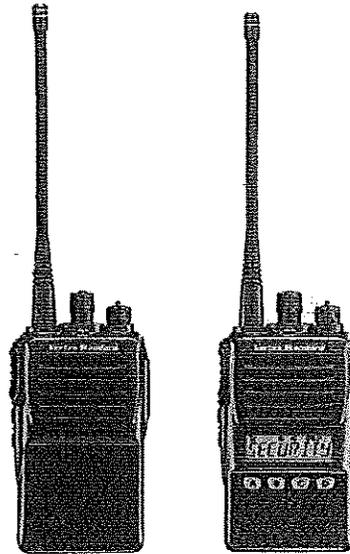
STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

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 Date 1/19/16  
 MSRP

## VX-350 Series Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-350 portable model standard packages include:**  
 FNB-130LI-UNI - 2300 mAh LI-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 Antenna Option  
 Standard 3 Year Warranty



VX-351

VX-354

**Radio Features:**

- 16 Channels
- Adjustable 1W to 5W Power Output
- 12.5/25 kHz Switchable Channel Spacing
- 6 or 2 Programmable Buttons (VX-354/VX-351 respectively)
- 8 Character Alpha Numeric Display (VX-354 only)
- CTCSS/DCS Encode and Decode
- DTMF ANI
- Dual 2-Tone Decode
- 6-Tone Signalling Built In
- Emergency
- Multi-Mode Scanning (Incl. Dual Watch,
- Priority, Follow-Me and TA Scan)
- ARTS™ (Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- TX/RX Battery Saver Circuit
- Whisper
- Optional Encryption (Voice Inversion or Rolling Code)
- Optional MDC1200® / GE-Star® ANI
- Radio to Radio Cloning
- PC Programmable
- Compact and Rugged Construction

**Recommended Accessories:**

- Speaker Microphone**
  - MH-45B4B Noise Canceling Speaker Microphone
  - MH-450S Standard Speaker Microphone
  - MH-360S Compact Speaker Microphone
- Carry Case**
  - LCC-351S Leather Case with Swivel
  - LCC-354S Leather Case with Swivel
- Headsets and Surveillance**
  - MH-37A4B-1 Earpiece Mic, Light Duty
  - VH-120S Earpiece Mic w/ Palm PTT
  - VH-110S Over-head, Heavy Duty Headset
  - VH-115S Lightweight Headset w/ Boom
  - VH-130S Earpiece Mic w/ Palm PTT
  - VH-215S Lightweight Padded Headset, Single Speaker
- Multi-Unit Charger**
  - VAC-6300B 6 Unit Rapid Charger (for use with FNB-V96LIA only)

**VX-350 Radio Cancellation**

Effective upon depletion of inventory, the VX-350 series will no longer be available for purchase. Last date of order for AC065U154-VX is 10/16/15. For additional details, refer to VSOL > Resource Center > Product Information > Cancellations.

PRODUCT DETAILS		NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL
<b>VX-354 Series Radio Models</b>				
400-470 MHz	UHF	1-5W	16	AC065U154-VX
				VX-354-G6-5
				\$ 290.00

FCC INFORMATION: K6610653020 (134-174 MHz) / AX106554620 (493-470VHZ) / K6610654720 (450-512 MHz)

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 MSRP

**VX-350 Series**  
**Portable**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

**Battery Choices:**

STDBAT0868AB	ADD: STD BATTERY FNB-V130LI-UNI 2300 MAH LI-ION (Uses VAC-UNI charger)	\$ 0.00
QA03191AA	ADD: FNB-V96LIA 2300 MAH LI-ION (Uses VAC-300 charger)	\$ 8.33

**Charger Choices:**

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (for use with FNB-V130LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (for use with FNB-V130LI-UNI)	\$ 0.00
QA02594AA	ADD: VAC-300B Rapid Charger (for use with FNB-V96LIA)	\$ 8.33
QA02630AA	ADD: VAC-300C 240V Desktop Rapid Charger (for use with FNB-V96LIA)	\$ 8.33
QA02589AA	DELETE: Charger	\$ (36.00)

**Antenna Choices:**

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

**General Options:**

**Programming Option:**

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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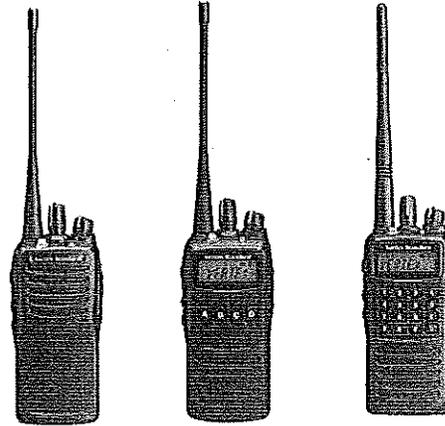
**Shipping Option:**

STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

## VX-450 Series Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-450 portable model standard packages include:**  
 FNB-V133LI-UNI - 1380 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 Antenna Selection  
 I.S. Option: FNB-V113LIIS (Uses VAC-450 or VAC-6450 charger)  
 Standard 3 Year Warranty



VX-451                      VX-454                      VX-459

**Radio Features:**

- Adjustable 0.25W to 5W Power Output
- 512 Chan/32 Groups (W/LCD)-32 Chan/2 Groups (W/O LCD)
- 8 Character Alphanumeric Display (VX-454/459)
- 9 Programmable Keys (VX-459), 7 (VX-454) or 3 (VX-451)
- Embedded MDC-1200 Encode/Decode
- Channel Announcement
- Voice Inversion Scrambling
- Emergency Function
- Manual on/off encryption activation
- DTMF ANI / Speed Dial / Paging
- CTCSS/DCS Encode/Decode
- Stun/Kill/Revive (5-Tone)
- Compander / Clear Voice / Whisper
- Priority Scan, Dual Watch, Follow me, Talk Around Scan Modes
- Radio to Radio Cloning (Also with Portable <-> Mobile Cloning)
- IP67 Rating
- MIL-STD 810 C/D/E/F/G
- BCLO, BTLO and TOT Functions
- Programmable LED Color Alert
- Optional Voice Storage

**Recommended Accessories:**

- Speaker Microphones**
  - MH-360S Compact Speaker Microphone
  - MH-450S Standard Speaker Microphone
  - MH-45B4B Heavy Duty Public Safety Speaker Mic
  - MH-66A4B IP57 Submersible Speaker Mic
- Headsets and Surveillance**
  - VH-110S Over the head Heavy Duty Dual-Muff Headset
  - VH-115S Lightweight Headset with Boom Mic
  - VH-215S Over the head Single Muff Headset
  - VH-120S Earpiece Mic w/Palm PTT
  - VH-130S Earpiece w/palm mic and PTT
  - MH-37A4B-1 Earpiece Mic, Light Duty
  - VH-150A IS VOX capable lightweight headset, BTH
  - VH-150B IS VOX capable lightweight headset, OTH
- Multi-Unit Charger**
  - VAC-6450 6 Unit Rapid Charger (Use FNB-V112  
 Option E and FNB-V113 Only)
  - DVS-8 Digital Voice Storage Unit
  - DVS-9 Mandown & Voice Storage Unit

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-451 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	32	AC095N101-VX	VX-451-D0	\$ 320.00
400-470 MHz	UHF	0.25-5W	32	AC095U102-VX	VX-451-G6	\$ 320.00
450-512 MHz	UHF	0.25-5W	32	AC095U101-VX	VX-451-G7	\$ 320.00
<b>VX-454 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	512	AC094N102-VX	VX-454-D0	\$ 380.00
400-470 MHz	UHF	0.25-5W	512	AC094U104-VX	VX-454-G6	\$ 380.00
450-512 MHz	UHF	0.25-5W	512	AC094U102-VX	VX-454-G7	\$ 380.00
<b>VX-459 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	512	AC094N101-VX	VX-459-D0	\$ 440.00
400-470 MHz	UHF	0.25-5W	512	AC094U103-VX	VX-459-G6	\$ 440.00
450-512 MHz	UHF	0.25-5W	512	AC094U101-VX	VX-459-G7	\$ 440.00

FCC INFORMATION: K6510943020 (134-174 MHz) / K6610944620 (403-470 MHz) / K6610944720 (450-512 MHz)

**VX-450 Series**  
**Portables**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

**Battery Choices:**

STDBAT0868AS	STANDARD BATTERY FNB-V133LI-UNI (Uses VAC-UNI charger)	\$ 0.00
QA03680AA	ADD: FNB-V134LI-UNI LI-ION BATTERY 2300MAH (Uses VAC-UNI charger)	\$ 30.00
QA02461AA	ADD: FNB-112LI 1140 mAh Li-Ion Battery (Uses VAC-450 charger)	\$ 8.33
QA02462AA	ADD: FNB-V113LI 2300 mAh Li-Ion Battery (Uses VAC-450 charger)	\$ 38.33
QA03904AA*	ADD: FNB-113LIIS 2300 MAH LI-ION I.S. BATTERY (Uses VAC-450 charger)	\$ 85.00
QA04954AA	ADD: FNB-V134LIIS-UNI LI-ION I.S. BATTERY 2300MAH (REQUIRES UNI CHARGER)	\$ 85.00

**Charger Choices:**

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (Use FNB-V133 and FNB-V134)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (Use FNB-V133 and FNB-V134)	\$ 0.00
QA02598AA	ADD: VAC-450B Rapid Rate Charger (Use FNB-V112 and FNB-V113)	\$ 0.00
QA02642AA	ADD: VAC-450C 240V CHARGER POWER SUPPLY (Use FNB-V112 & FNB-V113)	\$ 0.00
QA02597AA	DELETE: Charger	\$ (36.00)

**Antenna Choices:**

QA02460AA	ADD: ATV-16A 136-150 MHz Antenna	\$ 0.00
QA02463AA	ADD: ATV-16B 150-162 MHz Antenna	\$ 0.00
QA02478AA	ADD: ATV-16C 162-174 MHz Antenna	\$ 0.00
QA02618AA	ADD: ATV-16XL VHF Untuned Antenna	\$ 0.00
QA02466AA	ADD: ATU-16B 400-420 MHz Antenna	\$ 0.00
QA03039AA	ADD: ATU-16BS 400-430MHz (Stubby)	\$ 0.00
QA02467AA	ADD: ATU-16C 420-450 MHz Antenna	\$ 0.00
QA02464AA	ADD: ATU-16D 450-470 MHz Antenna	\$ 0.00
QA03040AA	ADD: ATU-16DS 450-490MHz (Stubby)	\$ 0.00
QA02465AA	ADD: ATU-16F 470-512 MHz Antenna	\$ 0.00

**LTR Option:**

QA03066AA	ADD: LTR TRUNKING	\$ 67.00
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**General Options:**

**Programming Option:**

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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**Shipping Option:**

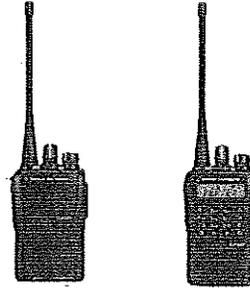
STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

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 MSRP

## EVX-530 Series

**Portables**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

**EVX-531 portable model standard packages include:**  
 FNB-V133LI - 1380 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 VHF or UHF Antenna Selection  
 CLIP-20 Belt Clip  
 Standard 3 Year Warranty



**EVX-531      EVX-539**

eVerge™

**Radio Features:**

- 5W Power Output
- 32 Channels/2 Groups
- 3 Programmable Buttons
- IP57 Rating
- Programmable Tri-Color Custom LED Alert
- Compander / Clear Voice / Whisper
- Channel Announcement

**Digital & Analog Features:**

- Mixed Mode Scan
- Emergency
- Priority Scan, Dual Watch, Follow me, Talk Around Scan Modes
- Lone Worker
- PTT ID Encode
- BCLO, BTLO and TOT Functions
- Key Lock
- Remote Monitor

**Digital Only Features:**

- All Call, Group Call, Individual Call
- Escalart

**Analog Only Features:**

- Embedded MDC-1200 Encode
- CTCSS/DCS Encode/Decode
- 2 Tone Encode/Decode

**Recommended Accessories:**

- Speaker Microphones**
  - MH-360S Compact Speaker Microphone
  - MH-450S Standard Speaker Microphone
  - MH-66A4B IP57 Submersible Speaker Mic
- Headsets and Surveillance**
  - MH-37A4B-1 Earpiece Mic, Light Duty
  - VH-150A IS VOX capable lightweight headset, BTH
  - VH-150B IS VOX capable lightweight headset, OTH
  - MH100 Rx only Earpiece, 3.5mm for use with MH-450S
  - MH-101A4B Single Wire Surveillance Kit
  - MH-102A4B Two-Wire Surveillance Kit
- Multi-Unit Charger**
  - VAC-6058 MUC Charger

**EVX-539 Legacy Display Model Cancellation**  
 Effective upon depletion of inventory, the EVX-539 legacy display models will no longer be available for purchase. For replacement models and additional details, refer to VSOL > Resource Center > Product Information > Cancellations

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>EVX-531 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	32	AC113N001-VX	EVX-531-D0-5 VHF 136-174 MHz	\$ 457.00
403-470 MHz	UHF	0.25-5W	32	AC113U002-VX	EVX-531-G6-5 UHF 403-470 MHz	\$ 457.00
450-512 MHz	UHF	0.25-5W	32	AC113U001-VX	EVX-531-G7-5 UHF 450-512 MHz	\$ 457.00
<b>EVX-539 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	512	AC116N002-VX	EVX-539-D0-5 VHF 136-174 MHz	\$ 540.00

FCC INFORMATION: EVX-531 Models AX11133020 (136-174 MHz) / AX11134620 (403-470 MHz) / AX11134720 (450-512 MHz) EVX-534/539 Models AX11153020 (136-174 MHz) / AX11154620 (403-470 MHz) / AX11154720 (450-512 MHz)  
 IC Info: EVX-531 Models: 10239A-11133020(136-174 MHz)/10239A-11134620(403-470 MHz)/10239A-11134720(450-512 MHz) EVX-534/539 Models: 10239A-11153020(136-174 MHz)/10239A-11154620(403-470 MHz)/10239A-11154720(450-512 MHz)

## EVX-530 Series

### Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

Battery Choices:

STDBAT0868AS	ADD: FNB-V133LI-UNI LI-ION BATTERY 1380MAH	\$ 0.00
QA03680AA	ADD: FNB-134LI-UNI LI-ION BATTERY 2300MAH	\$ 30.00

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI-B Universal Rapid Rate Charger	\$ 0.00
QA03678AA	ADD: VAC-UNI-C Universal 240V EU CHARGER	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02460AA	ADD: ATV-16A 136-150 MHz Antenna	\$ 0.00
QA02463AA	ADD: ATV-16B 150-162 MHz Antenna	\$ 0.00
QA02478AA	ADD: ATV-16C 162-174 MHz Antenna	\$ 0.00
QA02618AA	ADD: ATV-16XL VHF Untuned Antenna	\$ 0.00
QA02466AA	ADD: ATU-16B 400-420 MHz Antenna	\$ 0.00
QA03039AA	ADD: ATU-16BS 400-430MHz (Stubby)	\$ 0.00
QA02467AA	ADD: ATU-16C 420-450 MHz Antenna	\$ 0.00
QA02464AA	ADD: ATU-16D 450-470 MHz Antenna	\$ 0.00
QA03040AA	ADD: ATU-16DS 450-490MHz (Stubby)	\$ 0.00
QA02465AA	ADD: ATU-16F 470-512 MHz Antenna	\$ 0.00

**General Options:**

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	STANDARD PACKAGING	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

Date 1/19/16  
MSRP

## EVX-530 Series Enhanced Display Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

**EVX-534/539 portable model standard packages include:**  
 FNB-V133LI - 1380 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 VHF or UHF Antenna Selection  
 CLIP-20 Belt Clip  
 Standard 3 Year Warranty

**Radio Features:**

- 5W Power Output
- 512 Channels/32 Groups
- 7/9 Programmable Buttons
- IP57 Rating
- Channel Announcement

**Digital & Analog Features:**

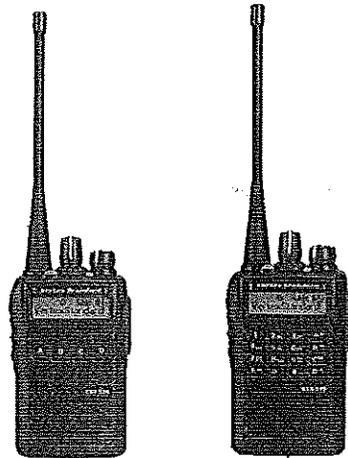
- Mixed Mode Scan
- Emergency
- Priority Scan, Dual Watch, Follow me, Talk Around Scan Modes
- Lone Worker
- PTT ID Encode/Decode
- BCLO, BTLO and TOT Functions
- Key Lock
- DTMF Encode
- Remote Monitor

**Digital Only Features:**

- All Call, Group Call, Individual Call
- Text Messaging
- Direct/Dual Capacity Mode
- Transmit Interrupt
- Basic/Enhanced Privacy
- 256 bit AES Enhanced Encryption
- Site Roaming
- 128 Record Contact List

**Analog Only Features:**

- Embedded MDC-1200 Encode/Decode
- CTCSS/DCS Encode/Decode
- 2 Tone Encode/Decode
- 5 Tone Encode/Decode
- DTMF Paging (EVX-539)
- Remote Stun/Kill/Revive (5-Tone)



EVX-534 EVX-539

eVerge™

**Recommended Accessories:**

**Speaker Microphones**

- MH-360S Compact Speaker Microphone
- MH-450S Standard Speaker Microphone
- MH-66A4B IP57 Submersible Speaker Mic

**Headsets and Surveillance**

- MH-37A4B-1 Earpiece Mic, Light Duty
- VH-150A IS VOX capable lightweight headset, BTH
- VH-150B IS VOX capable lightweight headset, OTH
- MH100 Rx only Earpiece, 3.5mm for use with MH-450S
- MH-101A4B Single Wire Surveillance Kit
- MH-102A4B Two-Wire Surveillance Kit

**Multi-Unit Charger**

- VAC-6058 MUC Charger

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>EVX-534 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	512	AC129N001-VX	EVX-534-D0-5 VHF 136-174 MHz	\$ 498.00
403-470 MHz	UHF	0.25-5W	512	AC129U002-VX	EVX-534-G6-5 UHF 403-470 MHz	\$ 498.00
450-512 MHz	UHF	0.25-5W	512	AC129U001-VX	EVX-534-G7-5 UHF 450-512 MHz	\$ 498.00
<b>EVX-539 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	512	AC129N002-VX	EVX-539-D0-5 VHF 136-174 MHz	\$ 540.00
403-470 MHz	UHF	0.25-5W	512	AC129U004-VX	EVX-539-G6-5 UHF 403-470 MHz	\$ 540.00
450-512 MHz	UHF	0.25-5W	512	AC129U003-VX	EVX-539-G7-5 UHF 450-512 MHz	\$ 540.00

FCC INFORMATION: EVX-534/539 Models AXI11153020 (136-174 MHz) / AXI11154920 (403-470 MHz) / AXI11154720 (450-512 MHz)

IC Info: EVX-534/539 Models: 10239A-11153020(136-174 MHz)/10239A-11154620 (403-470 MHz)/10239A-11154720 (450-512 MHz)

**EVX-530 Series Enhanced Display**  
**Portables**  
UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

Battery Choices:

STDBAT0868AA	ADD: FNB-V133LI-UNI LI-ION BATTERY 1380MAH	\$ 0.00
QA03680AA	ADD: FNB-134LI-UNI LI-ION BATTERY 2300MAH	\$ 30.00

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI-B Universal Rapid Rate Charger	\$ 0.00
QA03678AA	ADD: VAC-UNI-C Universal 240V EU CHARGER	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02460AA	ADD: ATV-16A 136-150 MHz Antenna	\$ 0.00
QA02463AA	ADD: ATV-16B 150-162 MHz Antenna	\$ 0.00
QA02478AA	ADD: ATV-16C 162-174 MHz Antenna	\$ 0.00
QA02618AA	ADD: ATV-16XL VHF Untuned Antenna	\$ 0.00
QA02466AA	ADD: ATU-16B 400-420 MHz Antenna	\$ 0.00
QA03039AA	ADD: ATU-16BS 400-430MHz (Stubby)	\$ 0.00
QA02467AA	ADD: ATU-16C 420-450 MHz Antenna	\$ 0.00
QA02464AA	ADD: ATU-16D 450-470 MHz Antenna	\$ 0.00
QA03040AA	ADD: ATU-16DS 450-490MHz (Stubby)	\$ 0.00
QA02465AA	ADD: ATU-16F 470-512 MHz Antenna	\$ 0.00

**General Options:**

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

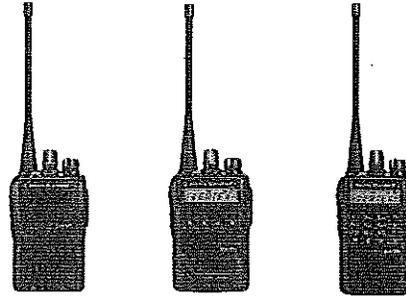
STDBOX0868AA	STANDARD PACKAGING	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

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 MSRP

## EVX-530 Series Intrinsically Safe Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

**EVX-530 IS portable model standard packages include:**  
 FNB-V134LIIS - 2300 mAh I.S. Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 VHF or UHF Antenna Selection  
 CLIP-20 Belt Clip  
 Standard 3 Year Warranty



**EVX-531   EVX-534   EVX-539**

eVerge™

**Radio Features:**

- 5W Power Output
- 32 Channels/2 Groups
- 3 Programmable Buttons
- IP57 Rating
- Programmable Tri-Color Custom LED Alert
- Compander / Clear Voice / Whisper
- Channel Announcement

**Digital & Analog Features:**

- Mixed Mode Scan
- Emergency
- Priority Scan, Dual Watch, Follow me, Talk Around Scan Modes
- Lone Worker
- PTT ID Encode
- BCLO, BTLO and TOT Functions
- Key Lock
- Remote Monitor

**Digital Only Features:**

- All Call, Group Call, Individual Call
- Escalart

**Analog Only Features:**

- Embedded MDC-1200 Encode
- CTCSS/DCS Encode/Decode
- 2 Tone Encode/Decode

**Recommended Accessories:**

- Speaker Microphone
- MH-66A4B IP57 Submersible Speaker Mic

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>EVX-531 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	32	AC113N021-VX	EVX-531-D0-5 VHF 136-174 MHz Intrinsically Safe	\$ 542.00
403-470 MHz	UHF	0.25-5W	32	AC113U022-VX	EVX-531-G6-5 UHF 403-470 MHz Intrinsically Safe	\$ 542.00
450-512 MHz	UHF	0.25-5W	32	AC113U021-VX	EVX-531-G7-5 UHF 450-512 MHz Intrinsically Safe	\$ 542.00
<b>EVX-534 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	512	AC115N021-VX	EVX-534-D0-5 VHF 136-174 MHz Intrinsically Safe	\$ 583.00
403-470 MHz	UHF	0.25-5W	512	AC115U022-VX	EVX-534-G6-5 UHF 403-470 MHz Intrinsically Safe	\$ 583.00
450-512 MHz	UHF	0.25-5W	512	AC115U021-VX	EVX-534-G7-5 UHF 450-512 MHz Intrinsically Safe	\$ 583.00
<b>EVX-539 Radio Models</b>						
136-174 MHz	VHF	0.25-5W	512	AC115N022-VX	EVX-539-D0-5 VHF 136-174 MHz Intrinsically Safe	\$ 625.00
403-470 MHz	UHF	0.25-5W	512	AC115U024-VX	EVX-539-G6-5 UHF 403-470 MHz Intrinsically Safe	\$ 625.00
450-512 MHz	UHF	0.25-5W	512	AC115U023-VX	EVX-539-G7-5 UHF 450-512 MHz Intrinsically Safe	\$ 625.00

FCC INFORMATION: EVX-531 Models AX11133020 (136-174 MHz) / AX11134620 (403-470 MHz) / AX11134720 (450-512 MHz) EVX-534/539 Models AX11153020 (136-174 MHz) / AX11154620 (403-470 MHz) / AX11154720 (450-512 MHz)  
 IC Info: EVX-531 Models: 10239A-11133020(136-174 MHz)/10239A-11134620(403-470 MHz)/10239A-11134720(450-512 MHz) EVX-534/539 Models: 10239A-11153020(136-174 MHz)/10239A-11154620(403-470 MHz)/10239A-11154720(450-512 MHz)

**EVX-530 Series Intrinsically Safe Portables**  
UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

QA04678AA	ADD: FNB-V134LIHS- LI-ION I.S. BATTERY 2300MAH	\$ 0.00
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Charger Choices:

STDCHG0888AA	ADD: VAC-UNI-B Universal Rapid Rate Charger	\$ 0.00
QA03678AA	ADD: VAC-UNI-C Universal 240V EU CHARGER	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02460AA	ADD: ATV-16A 136-150 MHz Antenna	\$ 0.00
QA02463AA	ADD: ATV-16B 150-162 MHz Antenna	\$ 0.00
QA02478AA	ADD: ATV-16C 162-174 MHz Antenna	\$ 0.00
QA02618AA	ADD: ATV-16XL VHF Untuned Antenna	\$ 0.00
QA02466AA	ADD: ATU-16B 400-420 MHz Antenna	\$ 0.00
QA03039AA	ADD: ATU-16BS 400-430MHz (Stubby)	\$ 0.00
QA02467AA	ADD: ATU-16C 420-450 MHz Antenna	\$ 0.00
QA02464AA	ADD: ATU-16D 450-470 MHz Antenna	\$ 0.00
QA03040AA	ADD: ATU-16DS 450-490MHz (Stubby)	\$ 0.00
QA02465AA	ADD: ATU-16F 470-512 MHz Antenna	\$ 0.00

General Options:

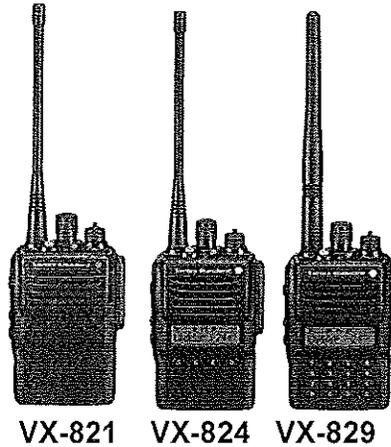
Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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## VX-820 Series Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-820 portable model standard packages include:**  
 FNB-V128LI-UNI 2300 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 Antenna Option  
 Standard 3 Year Warranty



**Radio Features:**

- 512 Channels/32 Groups (W/LCD) 16 Channels (w/o LCD)
- 12 Character Alpha Numeric Display/Full Keypad
- RSSI & Battery Life Indicator
- 12.5/25 kHz Switchable Channel Spacing
- 9 Programmable Keys (VX-829)
- 7 Programmable Keys (VX-824)
- 3 Programmable Keys (VX-821)
- CTCSS/DCS Encode and Decode
- DTMF ANI
- Optional DTMF Paging
- Audio Comander
- 2-Tone Encode & Dual 2-Tone Decode
- 5-Tone Encode/Decode
- Multi-Mode Scanning (Inc. Priority, Dual Watch, Follow-Me)
- Emergency Function
- ARTS™ (Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- Optional Voice Inversion Encryption
- Optional Rolling Code Encryption
- Optional Voice Storage
- Optional MDC1200® & GE-Star® ANI
- PC Programmable
- Radio to Radio Cloning
- Rugged, Compact Construction
- MIL-STD C/D/E/F

**Recommended Accessories:**

- Speaker Microphones**  
 MH-50D7A Public Safety Speaker Mic w/Toggle  
 MH-66A7A Submersible Noise Canceling  
 MH-66B7A Submersible with 2 Prog. Func. Keys
- Carry Cases**  
 LCC-820S Series (See accessories section for details)
- Headsets and Surveillance**  
 VH-111 Heavy Duty Dual Muff Over the Head style  
 VH-121 3 Wire Mini Lapel Mic Surveillance Kit  
 VH-131 2 Wire Palm Kit  
 VH-115L Headset  
 VAC-6058 120/240V 6 Unit Rapid Charger (Use with FNB-V127LI, FNB-V87LIA, and FNB-V92LI/LIIS only)
- Alkaline Battery Cas FNB-V128LI, and FNB-V129LI-UNI only**  
 FBA-34 Alkaline Battery Case

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL			
<b>VX-821 Radio Models</b>							
134-174 MHz	VHF	1-5W	16	AC058N011-VX	VX-821-D0-5		\$ 666.00
400-470 MHz	UHF	1-5W	16	AC058U022-VX	VX-821-G6-5		\$ 682.00
450-512 MHz	UHF	1-5W	16	AC058U019-VX	VX-821-G7-5		\$ 682.00
<b>VX-824 Radio Models</b>							
134-174 MHz	VHF	1-5W	512	AC058N012-VX	VX-824-D0-5		\$ 708.00
400-470 MHz	UHF	1-5W	512	AC058U023-VX	VX-824-G6-5		\$ 724.00
450-512 MHz	UHF	1-5W	512	AC058U020-VX	VX-824-G7-5		\$ 724.00
<b>VX-829 Radio Models</b>							
134-174 MHz	VHF	1-5W	512	AC058N013-VX	VX-829-D0-5		\$ 738.00
400-470 MHz	UHF	1-5W	512	AC058U024-VX	VX-829-G6-5		\$ 754.00
450-512 MHz	UHF	1-5W	512	AC058U021-VX	VX-829-G7-5		\$ 754.00

FCC INFORMATION: K6610583020 (134-174 MHz) / K6610584620 (403-470 MHz) / K6610584720 (450-512 MHz)

**VX-820 Series****Portables**

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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<b>Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP</b>		
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**Battery Choices:**

STDBAT0868AC	ADD: STD BATTERY FNB-V128LI-UNI 2300 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 0.00
QA03902AA	ADD: FNB-V127LI-UNI 1380 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ (16.00)
QA04398AA	ADD: FNB-V129LI-UNI 3000 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 60.00
QA04972AA	ADD: FNB-V129LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-UNI Charger)	\$ 118.34
QA02488AA	ADD: FNB-V87LIA 2300 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 8.33
QA02659AA	ADD: FNB-V86LIA 1380 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ (7.67)
QA02660AA	ADD: FNB-V92LI 3000 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 68.33

**Charger Choices:**

STDCHG0868AA	ADD: VAC-UNI 120V Standard Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA02742AA	ADD: VAC-921B 120V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02743AA	ADD: VAC-921C 240V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02481AA	DELETE: Charger	\$ (36.00)

**Antenna Choices:**

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02884AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

**General Options:****Programming Option:**

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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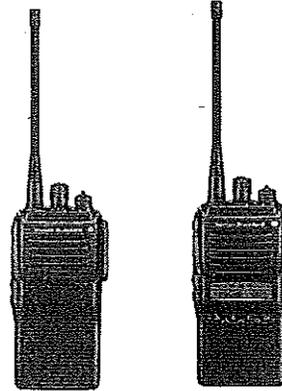
**Shipping Option:**

STDBOX0868AA	Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

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**VX-920 Series**  
**Portables**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-920 Series portable models packages can include:  
 FNB-V128LI-UNI 2300 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-56)  
 Antenna Option  
 Standard 3 Year Warranty



VX-921 VX-924

**Radio Features:**

- 512 Channels/32 Groups (VX-924) 48 Channels (VX-921)
- 12 Character Alpha Numeric Display (VX-924)
- Eight Programmable Keys (VX-924)
- Four Programmable Keys (VX-921)
- Programmable 3-position toggle key
- 7 - Color LED Call Alert Indicator
- RSSI & Battery Life Indicator
- 12.5/25 kHz Switchable Channel Spacing
- Stun / Kill / Revive (5-tone)
- Lone Worker
- CTCSS/DCS Encode and Decode
- DTMF ANI
- Optional DTMF Paging
- Audio Comander & Whisper
- 2-Tone Encode & Dual 2-Tone Decode
- 5-Tone Encode/Decode
- Multi-Mode Scanning (Inc. Priority, Dual Watch & Follow-Me)  
(Incl. Dual Watch, Priority, Follow-Me)
- Emergency Function
- ARTS™ (Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- Optional Voice Inversion Encryption
- Optional Rolling Code Encryption
- Optional Voice Storage
- Optional MDC1200® & GE-Star® ANI
- PC Programmable
- Radio to Radio Cloning
- Rugged, Compact Construction
- MIL-STD C/D/E/F

**Recommended Accessories:**

- Speaker Microphones
  - MH-50D7A Public Safety Speaker Mic w/Toggle
  - MH-66A7A Submersible Noise Canceling
  - MH-66B7A Submersible with 2 Prog. Func. Keys
- Carry Cases
  - LCC-920S Series (See accessories section for details)
- Headsets and Surveillance
  - VH-111 Heavy Duty Dual Muff Over the Head style
  - VH-121 3 Wire Mini Lapel Mic Surveillance Kit
  - VH-131 2 Wire Palm Kit
  - VH-115L Headset
- Multi-Unit Chargers
  - VAC-6058 120/240V 6 Unit Rapid Charger (Use with  
FNB-V86LIA, FNB-V87LIA, and FNB-V92LI/LIIS only)
- Alkaline Battery Case
  - FBA-34 / FNB-V127LI, FNB-V128LI, and FNB-V129LI-UNI only)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-921 Radio Models</b>						
134-174 MHz	VHF	1-5W	48	AC033N018-VX	VX-921-D0-5	\$ 650.00
400-470 MHz	UHF	5W	48	AC033U035-VX	VX-921-G6-5	\$ 666.00
450-512 MHz	UHF	1-5W	48	AC033U026-VX	VX-921-G7-5	\$ 666.00
<b>VX-924 Radio Models</b>						
134-174 MHz	VHF	1-5W	512	AC033N019-VX	VX-924-D0-5	\$ 692.00
400-470 MHz	UHF	5W	512	AC033U036-VX	VX-924-G6-5	\$ 708.00
450-512 MHz	UHF	1-5W	512	AC033U027-VX	VX-924-G7-5	\$ 708.00

FCC INFORMATION: K6610333020 (134-174 MHz) / K6610334620 (403-470 MHz) / K6610334720 (450-512 MHz)

## VX-920 Series

### Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

**Battery Choices:**

STDBAT0868AC	ADD: STD BATTERY FNB-V128LI-UNI 2300 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 0.00
QA03902AA	ADD: FNB-V127LI-UNI 1380 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ (16.00)
QA04398AA	ADD: FNB-V129LI-UNI 3000 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 60.00
QA04972AA	ADD: FNB-V129LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-UNI Charger)	\$ 118.34
QA02488AA	ADD: FNB-V87LIA 2300 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 8.33
QA02659AA	ADD: FNB-V86LIA 1380 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ (7.67)
QA02660AA	ADD: FNB-V92LI 3000 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 68.33

**Charger Choices:**

STDCHG0868AA	ADD: VAC-UNI 120V Standard Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA02742AA	ADD: VAC-921B 120V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02743AA	ADD: VAC-921C 240V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02481AA	DELETE: Charger	\$ (36.00)

**Antenna Choices:**

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

**General Options:**

**Programming Option:**

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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**Shipping Option:**

STDBOX0868AA	Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

## VXD-720 Series

### Portables

UHF / VHF Models, 12.5 kHz / 6.25 kHz<sup>o</sup>, Analog/Digital

VXD-720 portable models packages can include:

FNB-V116 - 1300 mAh Ni-MH Battery

VAC-40B - Single Unit Charger

Antenna

CLIP - 21 - Belt Clip

Standard 3 Year Warranty



VXD-720

**Radio Features:**

- 512 Channel Capacity
- 5 Programmable Keys
- 40 Character Scrolling Alphanumeric Display
- Tri-Color LED custom Call Alert
- Digital Encode/Decode: Call Alert, Private Call, Emergency
- Selective Radio Inhibit, radio check and remote monitor
- MDC-1200<sup>®</sup> analog encode/decode: call alert, emergency and PTT ID
- 2-Tone Analog paging, call alert, call alert w/voice, Select Call
- Basic Privacy in Digital Mode
- VOX
- Mixed Mode Scan
- AMBE+2<sup>™</sup> Digital Vocoder
- Radio to Radio Cloning

**VXD-720 Series Radio Cancellation**  
 Effective December 31, 2014 or upon depletion of inventory, VXD-720 Series radios will no longer be available for purchase. For additional details, refer to VSOL > Resource Center > Product Information > Cancellations

PRODUCT DETAILS		NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL
<b>VXD-720 Series Radio Models</b>				
450-512	UHF	4W	512	AC102U002-VX   VXD-720-G7-4 UHF 450-512 MHz
				\$ 750.00

FCC INFORMATION: K6511023020 (134-174 MHz) / K6511024620 (403-470 MHz) / K6511024720 (450-512 MHz)

## VXD-720 Series Portables

UHF / VHF Models, 12.5 kHz / 6.25 kHz<sup>o</sup>, Analog/Digital

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

**Battery Choices:**

QA02730AA	ADD: FNB-V116 1300 mAh NiMH	\$ 0.00
QA02735AA	ADD: FNB-V117LJ 2200 mAh Li-Ion	\$ 30.00

**Charger Choices:**

QA02732AA	ADD: VAC-40 Single Unit Charger	\$ 0.00
QA02733AA	DELETE: Charger	\$ (80.00)

**General Options:**

**Programming Option:**

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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**Shipping Option:**

QA03060AA	ADD: Bulk Packaging (Does not include radio model boxes with shipment)	\$ 0.00
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### Vertex Standard Portable Accessories

MSRP

VX-261	VX-264	VX-231	VX-350	VX-450	VX-450IS	VX-820	VX-920	EVX-530	EVX-530IS	VXD-720	Model Number	Description	MSRP
<b>Alignment / Service Related</b>													
X	X	X									XURFI0001	CN-3 SMA to BNC Adaptor	\$ 16.80
		X	X	X							AAF26X002	CT-124B VX-410/420 Firmware Cable. Requires FIF-12A	\$ 60.00
<b>Alkaline Battery Cases</b>													
			X					X			AAH09X001	FBA-41 Alkaline Battery Pack	\$ 44.00
						X	X				AAE11X002	FBA-34 Alkaline Battery Case VX-820/920 series	\$ 45.00
<b>Antennas</b>													
			X	X				X	X		AAH72X001	ATU-16B UHF Antenna 400-420 MHz	\$ 14.00
			X	X				X	X		AAH72X002	ATU-16C UHF Antenna 420-450 MHz	\$ 14.00
			X	X				X	X		AAH72X003	ATU-16D UHF Antenna 450-470 MHz	\$ 14.00
			X	X				X	X		AAH72X004	ATU-16F UHF Antenna 470-512 MHz	\$ 14.00
X	X	X	X					X			XUCET0010	ATU-6A 400-430 MHz / Brown / 6.5" / VX10UA/600/800/900	\$ 14.00
								X			XUCET0011	ATU-6AS Antenna 410-430 MHz / 3.5"	\$ 13.00
X	X	X	X			X	X				XUCET0012	ATU-6D 450-485 MHz / Red / 6" / VX-	\$ 14.00
X	X	X	X			X	X				XUCET0013	ATU-6DS Antenna 450-485 MHz / 3.5"	\$ 14.00
X	X	X	X								Q3000203	ATU-6F UHF 490-512 MHz Antenna	\$ 14.00
						X	X				XUCET0033	ATV-10A High Gain Antenna, 145-155MHz (Red) / 10.5"	\$ 16.00
						X	X				XUCET0034	ATV-10B High Gain Antenna, 150-160MHz (Brn) / 10.5"	\$ 16.00
						X	X				XUCET0035	ATV-10C High Gain Antenna, 155-165MHz (Blk) / 10.5"	\$ 16.00
						X	X				XUCET0036	ATV-10E High Gain Antenna, 165-175MHz (Org) / 10.5"	\$ 16.00
			X	X				X	X		AAH73X002	ATV-16A VHF Antenna 136-150 MHz	\$ 14.00
			X	X				X	X		AAH73X003	ATV-16B VHF Antenna 150-182 MHz	\$ 14.00
			X					X	X		AAJ10X001	ATU-16BS UHF 400-430 MHz Stubby	\$ 14.00
			X	X				X	X		AAH73X004	ATV-16C VHF Antenna 162-174 MHz	\$ 14.00
			X					X	X		AAJ10X002	ATU-16DS UHF 450-490 MHz Stubby	\$ 14.00
			X	X				X	X		AAH73X001	ATV-16XL VHF Untuned Antenna	\$ 14.00
						X					XUCET0019	ATV-6A Antenna 134-151 MHz / 4"	\$ 13.00
X	X	X	X			X	X				XUCET0020	ATV-6B Antenna 150-163 MHz / 3.5"	\$ 15.00
X	X	X	X			X	X				XUCET0021	ATV-6C Antenna 161-174 MHz / 3.5"	\$ 13.00
X	X	X	X			X	X				XUCET0022	ATV-6XL Untuned VHF Antenna 7"	\$ 14.00
X	X	X	X			X	X				XUCET0023	ATV-8A Antenna 134-150 MHz / Sable / 6"	\$ 14.00
X	X	X	X			X	X				XUCET0024	ATV-8B Antenna 150-163 MHz / Sable / 6"	\$ 14.00
X	X	X	X			X	X				XUCET0025	ATV-8C Antenna 162-174 MHz / Sable / 6"	\$ 14.00
								X			AAE64X001	ATW-1A Dual-band antenna for multi-band Rr: 134-151MHz / 450-520MHz	\$ 28.00
								X			AAE64X003	ATW-1C Dual-band antenna for multi-band Rr: 161-174MHz / 450-520MHz	\$ 28.00
								X			AAE64X002	ATW-1B Dual-band antenna for multi-band Rr: 150-163MHz / 450-520MHz	\$ 28.00
<b>Batteries</b>													
		X									AAJ65X001	FNB-V131LI-UNI 1380 mAh Li-Ion (VAC-UNI charger only)	\$ 40.00
		X									AAJ66X001	FNB-V132LI-UNI 2300 mAh Li-Ion (VAC-UNI charger only)	\$ 60.00
		X									AAG40X021	FNB-V103LIA 7.4V 1380 mAh Li-Ion Battery (VAC-300 Charger)	\$ 48.33
		X									AAG41X021	FNB-V104LI 7.4V 2300 mAh Li-Ion Battery (VAC-300 Charger Only)	\$ 68.33
			X								AAF21X021	FNB-V96LIA 2300mAh Li-Ion Battery (VAC-300 Charger Only)	\$ 48.33
			X								AAJ64X001	FNB-V130LI-UNI 2300 mAh Li-Ion (VAC-UNI charger only)	\$ 40.00
			X								AAH07X002	FNB-V112LI 7.4V 1140mAh Li-Ion Battery Pack (VAC-450 Only)	\$ 48.33
			X								AAH08X002	FNB-V113LI 7.4V 2300 mAh Li-Ion Battery Pack (VAC-450 Only)	\$ 78.33
				X							AAH13X002	FNB-V113LIIS 2300 mAh Li-Ion IS Battery	\$ 120.00
X	X		X					X			AAJ67X001	FNB-V133LI-UNI 1380 mAh Li-Ion Battery (VAC-UNI charger)	\$ 40.00
X	X		X					X			AAJ68X001	FNB-V134LI-UNI 2300 mAh Li-Ion Battery (VAC-UNI charger only)	\$ 70.00
				X				X			AAK66X001	FNB-V134LIIS 2300 mAh Li-Ion Battery, Intrinsically Safe (VAC-UNI Charger)	\$ 120.00
				X	X						AAD82X021	FNB-V86LIA 7.4 V 1380mAh Li-Ion Battery	\$ 72.33
				X	X						AAD83X021	FNB-V87LIA 7.4V 2300mAh Li-Ion Battery	\$ 88.33
				X	X						AAJ61X001	FNB-V127LI-UNI 1380 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 64.00
				X	X						AAJ62X001	FNB-V128LI-UNI 2300 mAh Li-Ion Battery (VAC-UNI)	\$ 80.00
				X	X						AAJ63X001	FNB-V129LI-UNI 3000 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 140.00

### Vertex Standard Portable Accessories

Date 1/19/2016

MSRP

VX-261	VX-264	VX-231	VX-350	VX-450	VX-450IS	VX-820	VX-920	EVX-530	EVX-530IS	VXD-720	Model Number	Description	MSRP
<b>Belt Clips</b>													
						X					AAE85X001	CLIP17-A Swivel Belt Clip	\$ 16.00
							X				AAE85X002	CLIP17-B Swivel Belt Clip	\$ 16.00
	X	X									AAE85X005	CLIP-17E Belt Clip Swive	\$ 16.00
	X	X									AAF60X101	CLIP-18 Belt Clip	\$ 10.00
X	X		X	X				X	X		AAH12X101	CLIP-20 Belt clip VX-450 Series	\$ 10.00
						X					AAE52X001	CLIP-820 Belt Clip for the VX-820 Series (TM)	\$ 10.00
							X				AAE51X001	CLIP-920 Belt Clip for the VX-920 Series (TM)	\$ 10.00
<b>Cases</b>													
	X	X									XUBEE0064	LCC-351 Leather case with belt loop	\$ 32.00
	X	X									XUBEE0065	LCC-351S Leather case with swivel mount	\$ 42.00
		X									XUBEE0066	LCC-354 VX-354 Leather case	\$ 32.00
		X									XUBEE0067	LCC-354S VX-354 Leather case with swivel	\$ 42.00
			X			X	X				AAJ14X001	LCC-133LN BELT LOOP CASE (FNB-V133LI-UNI) NO DISPLAY	\$ 32.00
			X			X	X				AAJ14X002	LCC-134LN BELT LOOP CASE (FNB-V134LI-UNI) NO DISPLAY	\$ 32.00
			X			X	X				AAJ14X003	LCC-133SN SWIVEL BELT CLIP CASE (FNB-V133LI-UNI) NO DISPLAY	\$ 42.00
			X			X	X				AAJ14X004	LCC-134SN SWIVEL BELT CLIP CASE (FNB-V134LI-UNI) NO DISPLAY	\$ 42.00
			X			X	X				AAJ14X005	LCC-133LD BELT LOOP CASE (FNB-V133LI-UNI) DISPLAY	\$ 32.00
			X			X	X				AAJ14X006	LCC-134LD BELT LOOP CASE (FNB-V134LI-UNI) DISPLAY	\$ 32.00
			X			X	X				AAJ14X007	LCC-133SD SWIVEL BELT CLIP CASE (FNB-V133LI-UNI) DISPLAY	\$ 42.00
			X			X	X				AAJ14X008	LCC-134SD SWIVEL BELT CLIP CASE (FNB-V134LI-UNI) DISPLAY	\$ 42.00
X											AAM03X001	LCC-261 Leather case with belt loop (FNB-V133LI-UNI)	\$ 32.00
X											AAM03X002	LCC-261H Leather case with belt loop (FNB-V134LI-UNI)	\$ 32.00
X											AAM03X003	LCC-261S Leather case with swivel belt loop (FNB-V133LI-UNI)	\$ 42.00
X											AAM03X004	LCC-261SH Leather case with swivel belt loop (FNB-V134LI-UNI)	\$ 42.00
	X										AAM04X001	LCC-264 Leather case with belt loop (FNB-V133LI-UNI)	\$ 32.00
	X										AAM04X002	LCC-264H Leather case with belt loop (FNB-V134LI-UNI)	\$ 32.00
	X										AAM04X003	LCC-264S Leather case with swivel belt loop (FNB-V133LI-UNI)	\$ 42.00
	X										AAM04X004	LCC-264SH Leather case with swivel belt loop (FNB-V134LI-UNI)	\$ 42.00
						X					XUBEE0048	LCC-820 Leather case with Belt Loop	\$ 32.00
						X					XUBEE0069	LCC-820H Leather case with belt loop. For use with VX-821/P821 and FNB - V92LI ( and IS ) battery	\$ 32.00
						X					XUBEE0046	LCC-820S Leather Case with Swivel and Belt Loop	\$ 42.00
						X					XUBEE0047	LCC-820S/TT Leather Case w/Swivel, Belt Loop and Keyboard Opening	\$ 42.00
						X					XUBEE0068	LCC-820SH Leather case with D Swivel. For use with VX-821/P821 and FNB - V92LI ( and IS ) battery	\$ 42.00
						X					XUBEE0072	LCC-820SH/TT Leather case with D swivel. For use with VX-829/P829 and FNB - V92LI ( and IS ) battery	\$ 42.00
						X					XUBEE0075	LCC-920H Leather case with belt loop. For use with VX-921/P921 and FNB - V92LI ( and IS ) battery	\$ 32.00
						X					XUBEE0079	LCC-920H/TT Leather case with belt loop. For use with VX-929/P929 and FNB - V92LI ( and IS ) battery	\$ 32.00
						X					XUBEE0049	LCC-920S Leather Case with Swivel and Belt Loop	\$ 42.00
						X					XUBEE0050	LCC-920S/TT Leather case w/ Swivel Clip and Keyboard Cut-Out	\$ 42.00
						X					XUBEE0074	LCC-920SH Leather case with D Swivel. For use with VX-921/P921 and FNB - V92LI ( and IS ) battery	\$ 42.00
						X					XUBEE0078	LCC-920SH/TT Leather case with D swivel. For use with VX-929/P929 and FNB - V92LI ( and IS ) battery	\$ 42.00
						X					XUBEE0051	LCC-920TT Leather Case w/Belt Loop and Keypad Cut-out	\$ 32.00

### Vertex Standard Portable Accessories

Date 1/19/2016

MSRP

VX-261	VX-264	VX-231	VX-350	VX-450	VX-450IS	VX-820	VX-920	EVX-530	EVX-530IS	VXD-720	Model Number	Description	MSRP
<b>Charger</b>													
			X								AAH10X101	CD-49 Rapid Rate, Desktop Charger	\$ 20.00
		X	X								XUAAF19X10201	VAC-300B Desktop Rapid Charger for VX-351/354, 120VAC (For use with FNB-V103LIA, FNB-V104LIA and FNB-V96LIA only)	\$ 50.33
		X	X								XUAAF19X10202	VAC-300C Desktop Rapid Charger for VX-351/354, 230VAC (For use with FNB-V103LIA, FNB-V104LIA and FNB-V96LIA only)	\$ 50.33
X	X	X	X	X		X	X	X			XUAAJ72X001	VAC-UNI-B 120V US Universal Charger (For use with -UNI)	\$ 36.00
X	X	X	X	X		X	X	X			XUAAJ72X002	VAC-UNI-C 220V EU Universal Charger (For use with -UNI)	\$ 36.00
				X							XUAAH10X10101	VAC-450B 120 VAC (PA45B/CD-49) (FNB-V112LI & FNB-V113LI)	\$ 36.00
				X							XUAAH10X10102	VAC-450C 230 VAC (PA-45C/CD-49) (FNB-V112LI & FNB-V113LI)	\$ 36.00
X	X	X	X	X		X	X	X			XUAAK44X001	VAC-6058 120V MUC FOR UNI LIION BATTERY	\$ 450.00
X	X	X	X	X		X	X	X			XUAAK44X002	VAC-6058 220V EU MUC FOR UNI LIION BATTERY	\$ 450.00
		X	X								XUAAF61X00101	VAC-6300B 120VAC 6 unit Multi-Rapid Charger w/ US power cable	\$ 450.00
		X	X								XUAAF61X00102	VAC-6300C 240VAC 6 unit Multi-Rapid Charger w/ EU plug	\$ 450.00
			X								XUAAH93X00101	VAC-6450B 120VAC 6 unit Multi Charger	\$ 450.00
			X								XUAAH93X00102	VAC-6450C 240VAC (VAC-6450/AC Cable)	\$ 450.00
						X	X				XUAAE45X00101	VAC-921B 120 VAC Desktop Rapid charger	\$ 72.33
						X	X				XUAAE45X00102	VAC-921C 240 VAC Desk top rapid charger	\$ 72.33
		X	X			X	X				AAF15X001	VCM-2 Vehicular Charger Mounting Adapter Kit for VAC-920 & VAC-300	\$ 60.00
			X								AAH92X001	VCM-4 Vehicular Charger Mounting Adapter for VAC-450	\$ 60.00
X	X	X	X	X		X	X	X			AAK45X001	VCM-5 Vehicle Charger Mounting Adapter -- UNI Charger/Batteries Only	\$ 72.00
<b>Headsets and Surveillance</b>													
		X	X	X							AAA93X002	VH-110S Over-Head, Heavy Duty Headset	\$ 540.00
					X	X					AAE72X001	VH-111 Heavy Duty, Dual Muff, Over the head style, with Boom Mic	\$ 400.00
X	X	X	X	X				X			AAL40X001	VH-150A IS Lightweight behind-the-head VOX headset	\$ 70.00
X	X	X	X	X				X			AAL41X001	VH-150B IS Lightweight over-the head VOX headset	\$ 80.00
X	X	X	X	X							AAL82X001	MH-100 3.5MM EARPIECE for RSM Audio Jack	\$ 19.00
X	X	X	X	X				X			AAL83X001	MH-101A4B 1 Wire Surveillance Kit	\$ 40.00
X	X	X	X	X							AAL84X001	MH-102A4B 2 Wire Surveillance Kit	\$ 55.00
X	X		X					X			AAL85X001	AAL84X001	\$ 70.00
		X	X	X							AAG48X001	VH-115S Lightweight Headset w/ Boom	\$ 55.00
		X	X	X							AAA92X002	VH-120S Earpiece Mic w/ Palm PTT	\$ 220.00
		X	X	X							AAA91X003	VH-130S Earpiece Mic w/ Palm PTT	\$ 150.00
						X	X				AAG48X003	VH-115L Headset	\$ 98.00
		X	X	X							AAG49X001	VH-215S Lightweight Padded Headset, Single Speaker	\$ 121.00
X	X	X	X	X				X			AAK50X001	MH-37A4B-1 EARPIECE MICROPHONE Single Wire Surveillance Kit	\$ 40.00

ATTENTION: A08050001 is scheduled for cancellation. It is replaced by the AAK50X001 which is compatible with the digital EVX-530 series in addition to analog. A08050001 will be available while supplies last.

### Vertex Standard Portable Accessories

Date 1/19/2016

MSRP

VX-261	VX-264	VX-231	VX-350	VX-450	VX-450IS	VX-920	VX-920	EVX-530	EVX-530IS	VXD-720	Model Number	Description	MSRP
<b>Misc.</b>													
			X	X							AAH99X101	CSS-450 Channel Selector Stopper	\$ 8.00
			X								AAH63X001	DVS-8 Digital Voice Storage Unit	\$ 50.00
			X	X							AAH88X001	DVS-9 Mandown and voice storage	\$ 100.00
<b>Power Supply</b>													
			X								AAH11X002	PA-45B AC Adapter	\$ 16.00
<b>Programming and Installation</b>													
X	X	X	X	X						X	AAD88X001	CT-106 - FIF-12 to VX-160/180/410/420/450 Cable	\$ 40.00
						X	X				AAD92X001	CT-108 - PC programming cable (for use with the FIF-12 or FIF-12A USB Interface)	\$ 65.00
						X	X				AAE50X001	CT-116 Radio to Radio Programming Cable	\$ 65.00
			X					X			AAH77X001	CT-153 Clone cable	\$ 50.00
						X	X				AAJ09X001	CT-161 PROG CABLE(PORT W/ 14PIN CONN) (USE WITH FRB-6)	\$ 76.00
X	X	X	X	X						X	XURTS0008	CT-27A Radio to radio cloning cable	\$ 14.00
X	X	X	X	X		X	X				AAJ06X001	FRB-6 Tuning Interface (Requires Connection Cable)	\$ 340.00
X	X	X	X	X							AAJ08X001	CT-180 Connection Cable 4-Pin Mic Jack (Use with FRB-6)	\$ 55.00
X	X	X	X	X		X	X	X			AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional cable pigtails. Pigtails not included.	\$ 150.00
						X					T9207094	AF TEST ADAPTOR	\$ 50.00
<b>Signaling</b>													
						X	X				AAD51X001	DVS-5 Digital Voice Storage Board (120 sec. max.)	\$ 50.00
			X			X	X				A12760001	FVP-25 Encryption Unit (Band Inversion Type) and DTMF Paging. (requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000)	\$ 60.00
			X			X	X				AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000. Requires VX MPI for programming	\$ 346.00
			X			X	X				A12760003	FVP-36 Encryption Unit (Band Inversion Type)	\$ 40.00
							X				AAD34U001	SRX-3 D Dual Band Rx module. Adds UHF Rx to VHF radio. 450 MHz ~ 512 MHz	\$ 160.00
							X				AAD34N001	SRX-4 Dual Band Rx module. Adds VHF Rx to UHF radio. 135 MHz ~ 174 MHz	\$ 160.00
					X	X					XUCMR0002	VMDE-200 Board for MDC1200 Encode/Decode	\$ 127.79
			X			X	X				XUCMR0003	VME-100 Board for MDC1200 Digital ANI	\$ 69.31
<b>Speaker Microphones</b>													
X	X	X	X	X					X		AAF52X001	MH-360S Compact Speaker Microphone for VX-210A, VX-160, VX-180 & VX-450. Very similar to the MH-34D4B.	\$ 21.00
X	X	X	X	X					X		AAF53X001	MH-450S Medium-Duty Speaker Microphone w/ Lapel Clip and 3.5mm Ear Phone Jack	\$ 26.67
X	X	X	X	X							A13960007	MH-45B4B Noise Cancelling Speaker Microphone	\$ 82.00
						X	X				AAA75X004	MH-50D7A Public Safety Speaker Microphone w/toggle, MIL-STD Rated	\$ 94.00
						X	X		X		AAE46X001	MH-66A7A Submersible Noise Canceling Speaker Microphone	\$ 92.00
X	X		X	X				X	X		AAE46X007	MH-66A4B IP57 Submersible Speaker Microphone	\$ 92.00
						X	X				AAE46X002	MH-66B7A Submersible Speaker Microphone with 2 Programmable Function keys and Audio Attenuator Switch.	\$ 180.00

Date 1/19/16  
MSRP

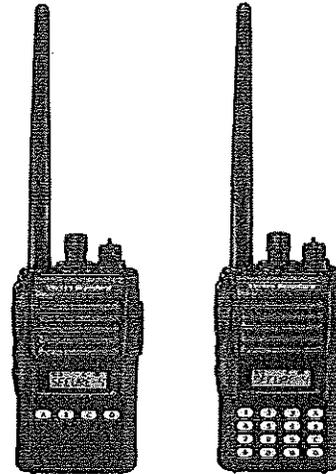
## VX-420A Series

### Trunking Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-420A trunking portable models packages can include:

- FNB-V94 - 7.2 V 1800 mAh NiMH Battery
- VAC-20B - 120 VAC 3 - Hour Desktop Charger
- Antenna Option
- Standard 3 Year Warranty



VX-420A (4key) VX-420A (16key)

Radio Features:

- 250 Conventional Ch./32 LTR System/Groups/16 Passport Zones
- 8 Character Alphanumeric Display
- 7 Programmable Function Buttons
- Intrinsically Safe Option Available
- 12.5/25 kHz Switchable Channel Spacing
- 2 Programmable Buttons
- CTCSS/DCS Encode and Decode
- DTMF ANI /Optional DTMF Paging (with FVP-25)
- Audio Compander
- 2-Tone Encode & Dual 2-Tone Decode
- Multi-Mode Scanning (Inc. Priority, Dual Watch, Follow-Me)
- \*ARTS™ (Auto-Range Transpond System) \*Conv. Mode Only
- BCLO, BTLO and TOT Functions
- Built In Voice Inversion Encryption
- Emergency Function
- Radio to Radio Cloning

PassPort Mode Only Radio Features:

- Remote Stun, Kill, Revive
- Selective Calling
- PassPort Classic format by Trident Micro Systems

**VX-420A Series Radio Cancellation**  
Effective upon depletion of inventory, VX-420A Series radios will no longer be available for purchase. For additional details, refer to VSOL > Resource Center > Product Information > Cancellations

Recommended Accessories:

- Speaker Microphones**  
MH-450S Standard Speaker Microphone
- Carry Case**  
LCC-420S Leather Case with Swivel
- Headsets and Surveillance**  
VH115S Lightweight Headset with Boom Mic
- Multi-Unit Charger**  
VAC-6800B 6 Unit Rapid Charger (Li-Ion only)
- Spare Battery**

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-424A Radio Models</b>						
134-174 MHz	VHF	1-5W	250	AC071N102-VX	VX-424A(4Key)	\$ 407.00
134-174 MHz	VHF	1-5W	250	AC071N101-VX	VX-424A(16Key)	\$ 427.00

FCC INFORMATION: K6610503220 (134-174 MHz) / K6610504420 (450-512 MHz)

Date 1/19/16  
MSRP

**VX-420A Series**  
**Trunking Portables**  
UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

Battery Choices:

QA02473AA                      ADD: FNB-V94 1800 mAh NIMH Battery                      \$     0.00

Charger Choices:

QA02476AA                      ADD: VAC-20B 120V 3 Hour Desktop Charger                      \$     0.00

QA02650AA                      ADD: VAC-20C 240V 3 Hour Desktop Charger                      \$     0.00

QA02477AA                      ADD: VAC-810B Rapid Rate Charger  
(Only for use with Li-Ion Batteries)                      \$     22.00

QA02477AA                      ADD: VAC-810C 240V Rapid Rate Charger  
(Only for use with Li-Ion Batteries)                      \$     22.00

QA02608AA                      DELETE: Charger                      \$    (38.00)

Antenna Choices:

QA02616AA                      ADD: ATV-8A 134-150 MHz Antenna                      \$     0.00

QA02458AA                      ADD: ATV-8B 150-162 MHz Antenna 6"                      \$     0.00

QA03017AA                      ADD: ATV-6B 150-162 MHz Antenna 3.5" \*\*Reduced Range Performance\*\*                      \$     0.00

QA02457AA                      ADD: ATV-8C 162-174 MHz Antenna 6"                      \$     0.00

QA03016AA                      ADD: ATV-6C 162-174 MHz Antenna 3.5" \*\*Reduced Range Performance\*\*                      \$     0.00

QA02684AA                      ADD: ATV-6XL VHF Untuned Antenna                      \$     0.00

QA02624AA                      ADD: ATU-6D 450-485 MHz Antenna 6"                      \$     0.00

QA02615AA                      ADD: ATU-6DS 450-485 MHz Antenna 3.5"                      \$     0.00

**General Options:**

Programming Option:

QA02501AA                      ADD: Passport Trunking                      \$     0.00

QA02724AA                      ADD: Customer Codeplug Factory Programming                      \$    50.00

Shipping Option:

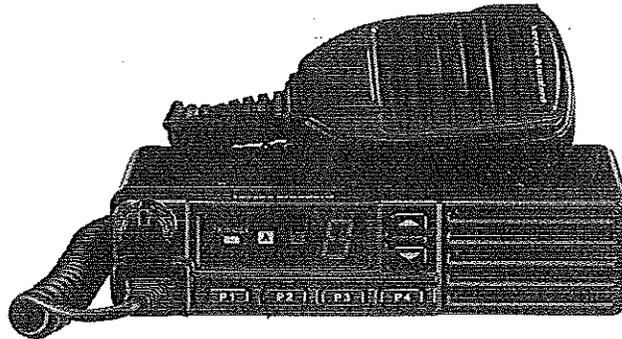
QA03060AA                      ADD: Bulk Packaging                      \$     0.00

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 Date 1/19/16  
 MSRP

## VX-2100 Series Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-2100 mobile models include:  
 MH-67A8J - Standard Microphone  
 Standard 3 Year Warranty



VX-2100

Radio Features:

- 8 Channels
- 50W or 25W Power Output
- 12.5/25 kHz Switchable Channel Spacing
- 6 Programmable/Replaceable Buttons
- Loud Front Speaker Audio
- CTCSS/DCS Encode and Decode
- DTMF ANI
- 2-Tone Encode/Decode
- Built-In 5 Tone Signaling
- Emergency Feature
- ARTS™ (Auto-Range Transpond System)
- DTMF Paging (Option)
- Encryption (Voice Inversion/Rolling Code) OPTION
- MIL-STD 810 C/D/E/F
- D-SUB 15 pin Accessory Connector
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me)

Recommended Accessories:

- Microphone
- MD-12A8J Desktop Microphone
- External Speaker
- MLS-100 12W External Speaker
- MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-2100 Series Radio Models</b>						
134-174 MHz	VHF	25W	8	AC061N133-VX	VX-2100-D0-25	\$ 330.00
134-174 MHz	VHF	50W	8	AC061N131-VX	VX-2100-D0-50	\$ 345.00
400-470 MHz	UHF	25W	8	AC061U137-VX	VX-2100-G6-25	\$ 350.00
400-470 MHz	UHF	45W	8	AC061U135-VX	VX-2100-G6-45	\$ 360.00
450-512 MHz	UHF	25W	8	AC061U133-VX	VX-2100-G7-25	\$ 350.00
450-512 MHz	UHF	45W	8	AC061U131-VX	VX-2100-G7-45	\$ 360.00

FCC INFORMATION: K66110613040 (134-174 MHz) / K6610614640 (403-470 MHz - 25W) / K6610614640 (403-470 MHz 45W) / K6610614730 (450-512 MHz 25W) / K6610614740 (450-512 MHz 45W)

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Date 1/19/16  
MSRP

**VX-2100 Series**  
**Mobiles**  
UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

Speaker Microphone Choices:

QA02627AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02626AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00

**General Options:**

Programming Option:

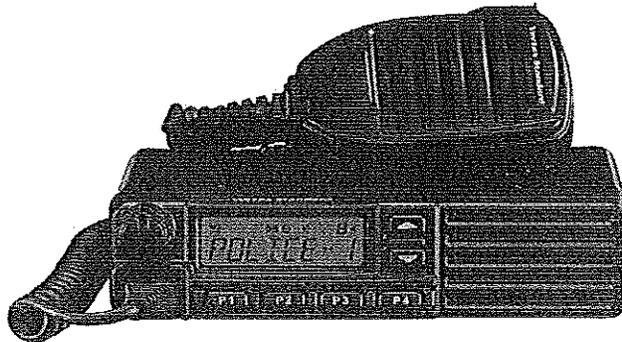
QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 0.00
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 Date 1/19/16  
 MSRP

## VX-2200 Series Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-2200 mobile models include:**  
 MH-67A8J - Standard Microphone  
 Standard 3 Year Warranty



VX-2200

**Radio Features:**

- 128 Channels
- 50W or 25W Power Output
- 12.5/25 kHz Switchable Channel Spacing
- 6 Programmable/Replaceable Buttons
- Loud Front Speaker Audio
- CTCSS/DCS Encode and Decode
- DTMF ANI
- 2-Tone Encode/Decode
- Built-In 5 Tone Signaling
- Emergency Feature
- ARTS™ (Auto-Range Transpond System)
- DTMF Paging (Option)
- Encryption (Voice Inversion/Rolling Code) OPTION
- MDC-1200®/GE-STAR® ANI Encode OPTION
- MIL-STD 810 C/D/E/F
- D-SUB 15 pin Accessory Connector
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me)

**Recommended Accessories:**

- Microphone
- MD-12A8J Desktop Microphone
- External Speaker
- MLS-100 12W External Speaker
- MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-2200 Series Radio Models</b>						
134-174 MHz	VHF	25W	128	AC061N134-VX	VX-2200-D0-25	\$370.00
134-174 MHz	VHF	50W	128	AC061N132-VX	VX-2200-D0-50	\$395.00
400-470 MHz	UHF	25W	128	AC061U138-VX	VX-2200-G6-25	\$390.00
400-470 MHz	UHF	45W	128	AC061U136-VX	VX-2200-G6-45	\$420.00
450-512 MHz	UHF	25W	128	AC061U134-VX	VX-2200-G7-25	\$390.00
450-512 MHz	UHF	45W	128	AC061U132-VX	VX-2200-G7-45	\$420.00

FCC INFORMATION: K66110613040 (134-174 MHz) / K6610614640 (403-470 MHz - 25W) / K6610614640 (403-470 MHz 45W) / K6610614730 (450-512 MHz 25W) / K6610614740 (450-512 MHz 45W)

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Date 1/19/16  
MSRP

**VX-2200 Series**  
**Mobiles**  
UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices:

QA02627AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02626AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00

General Options:

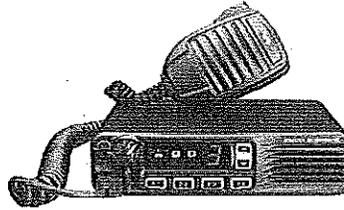
Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$50.00
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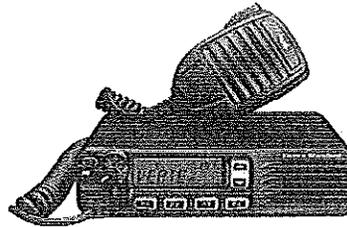
## VX-4500/4600 Series Mobiles

UHF/VHF Models, 12.5 kHz / 20 kHz / 25 kHz Analog

**VX-4500/4600 mobile models include:**  
 MH-67A8J Standard Microphone  
 Standard 3 Year Warranty



**VX-4500**



**VX-4600**

**Radio Features:**

- 512 Channels/32 Groups (VX-4600), 8 Channels (VX-4500)
- 6 Programmable Keys
- 8 Character alphanumeric display (VX-4600)
- RSSI signal strength indicator (VX-4600)
- Embedded MDC-1200 Encode and Decode
- Channel Announcement
- VOX Built-in
- Speed Dial (VX-4600)
- CTCSS / DCS Encode and Decode
- BCLO / BTLO and TOT Functions
- Comander
- Direct Channel entry (VX-4600)
- Minimum volume control
- Talk around
- Priority scan
- Dual priority scan
- Dual watch scan
- Follow-me scan
- Talk around scan
- Talk back scan
- Operator selectable scan
- Group scan
- Manual squelch control
- D-sub 15 pin accessory connector
- Public address / horn alert
- Radio to Radio Cloning
- Clone Programming files from VX-450 to VX-4500/4600
- MIL -STD 810 C/D/E/F/G

**Recommended Accessories:**

- Microphone:**  
 MH-67A8J: Standard microphone  
 MH-75A8J: Keypad microphone (16 keys)  
 MD-12A8J: Desktop microphone
- External Speaker:**  
 MLS-100: External speaker, square, 12W  
 MLS-200 Waterproof External Speaker (12 Watt Peak)
- Additional:**  
 LF-6: DC Line Filter
- Option Boards:**  
 DVS-8: Digital voice storage

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-4500 Radio Models</b>						
134-174 MHz	VHF	50W	8	AC093N101-VX	VX-4500-D0-50	\$460.00
400-470 MHz	UHF	45W	8	AC093U106-VX	VX-4500-G6-45	\$460.00
450-512 MHz	UHF	45W	8	AC093U101-VX	VX-4500-G7-45	\$460.00
<b>VX-4600 Radio Models</b>						
134-174 MHz	VHF	50W	512	AC093N102-VX	VX-4600-D0-50	\$510.00
400-470 MHz	UHF	45W	512	AC093U106-VX	VX-4600-G6-45	\$510.00
450-512 MHz	UHF	45W	512	AC093U102-VX	VX-4600-G7-45	\$510.00

FCC INFORMATION: K6610933040 (134-174 MHz) / K6610934640 (403-470 MHz) / K6610934740 (450-512 MHz)

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Date 1/19/16  
MSRP

**VX-4500/4600 Series**  
**Mobiles**  
UHF/VHF Models, 12.5 kHz / 20 kHz / 25 kHz Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices:

QA02827AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02826AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00

LTR Option:

QA03067AA	ADD: LTR TRUNKING	\$ 50.00
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General Options:

Programming Option:

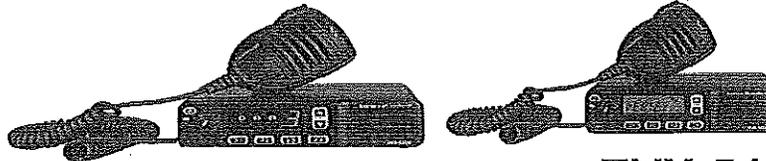
QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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## EVX-5300/5400 Series

### Mobiles

UHF/VHF Models, 12.5 kHz/ 20 kHz / 25 kHz Digital/Analog

**EVX-5300/5400 mobile models include:**  
 MH-67A8J Standard Microphone  
 Standard 3 Year Warranty



**EVX-5300**

**EVX-5400**

**Radio Features:**

- 8 Channels/1 Group
- 6 Programmable Keys
- Voice Comander
- Programmable Tri-Color LED
- Minimum Volume Control
- Public Address/Horn Alert
- D-Sub 15-pin accessory connector
- Radio to radio cloning

**Digital & Analog Features:**

- Mixed Mode Scan
- Emergency Alert
- Lone Worker
- Priority Scan
- Follow Me Scan/Dual Watch
- Remote stun/kill/revive
- Channel Announcement

**Digital Only Features:**

- All call, Group Call, Individual Call
- Escalart
- Remote Monitor
- PTT ID Encode
- Remote Monitor

**Analog Only Features:**

- CTCSS/DCS Encode/Decode
- MDC-1200 Encode/Decode
- 2-Tone Encode/Decode
- 5-Tone Encode/Decode
- DTMF Speed Dial
- DTMF Paging

eVerge™



**Recommended Accessories:**

**Microphone:**

- MH-67A8J: Standard microphone
- MH-75A8J: Keypad microphone (16 keys)
- MD-12A8J: Desktop microphone

**External Speaker:**

- MLS-100: External speaker, square, 12W

**EVX-Link Order Information:**

When selecting the EVX-Link configuration option as part of the mobile radio purchase, it is recommended that the radio be purchased with the newly available Delete Microphone options, QA02678AA, as part of the package. Please note the microphone is not functional in the EVX-Link configuration.  
 Also please note, the EVX-5400 mobile display is not active when used as the EVX-Link interface. No additional information (PTT-ID or otherwise) will appear on the display when used with EVX-Link. Please consider customer requirements when selecting a mobile companion for the EVX-Link.

PRODUCT DETAILS					NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL			
<b>EVX-5300 25W Radio Models</b>							
136-174 MHz	VHF	25W	8	AC114N002-VX	EVX-5300-D0-25 VHF 136-174 MHz		\$555.00
403-470 MHz	UHF	25W	8	AC114U004-VX	EVX-5300-G6-25 UHF 403-470 MHz		\$555.00
450-512 MHz	UHF	25W	8	AC114U003-VX	EVX-5300-G7-25 UHF 450-512 MHz		\$555.00
<b>EVX-5300 45/50W Radio Models</b>							
136-174 MHz	VHF	50W	8	AC114N001-VX	EVX-5300-D0-50 VHF 136-174 MHz		\$585.00
403-470 MHz	UHF	45W	8	AC114U002-VX	EVX-5300-G6-45 UHF 403-470 MHz		\$585.00
450-512 MHz	UHF	45W	8	AC114U001-VX	EVX-5300-G7-45 UHF 450-512 MHz		\$585.00
<b>EVX-5400 25W Radio Models</b>							
136-174 MHz	VHF	25W	512	AC114N004-VX	EVX-5400-D0-25 VHF 136-174 MHz		\$605.00
403-470 MHz	UHF	25W	512	AC114U008-VX	EVX-5400-G6-25 UHF 403-470 MHz		\$605.00
450-512 MHz	UHF	25W	512	AC114U007-VX	EVX-5400-G7-25 UHF 450-512 MHz		\$605.00
<b>EVX-5400 45/50W Radio Models</b>							
136-174 MHz	VHF	50W	512	AC114N003-VX	EVX-5400-D0-50 VHF 136-174 MHz		\$635.00
403-470 MHz	UHF	45W	512	AC114U006-VX	EVX-5400-G6-45 UHF 403-470 MHz		\$635.00
450-512 MHz	UHF	45W	512	AC114U005-VX	EVX-5400-G7-45 UHF 450-512 MHz		\$635.00

FCC INFORMATION: AX011143040 (134-174 MHz) / AX011144640 (403-470 MHz) / AX011144740 (450-512 MHz)  
 IC INFORMATION: 10239A-11143040 (134-174 MHz) / 10239A-11144640 (403-470 MHz) / 10239A-11144740 (450-512 MHz)

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**EVX-5300/5400 Series**  
**Mobiles**  
UHF/VHF Models, 12.5 kHz/ 20 kHz / 25 kHz Digital/Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

Speaker Microphone Choices:

QA02627AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02626AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00
QA02678AA	DEL: Speaker Mic	\$ (40.00)

**General Options:**

EVX-LINK Configuration:

QA05739AA	ADD: EVX-LINK Configuration Includes: EVX-Link Box (EVX Mobile to EVX-Link Interface cable) SEC-1223 Mobile Power Supply EVX Mobile / EVX-Link Interface Firmware	\$ 833.33
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Reminder:  
It is recommended to select the Delete Mic option QA02678AA when purchasing the EVX-Link Option.

Programming Option:

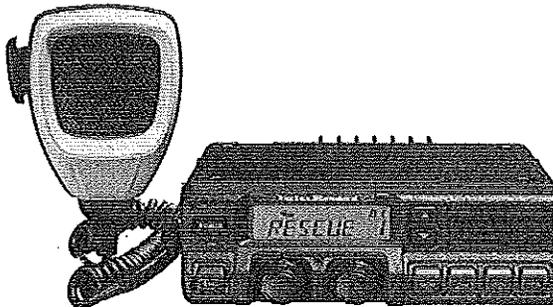
QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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# VX-5500 Series

## Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-5500 mobile models include:**  
MH-53C7A Heavy Duty Microphone  
Standard 3 Year Warranty



VX-5500

**Radio Features:**

- 250 Channels
- Large 8-Digit Alphanumeric Display
- 7 Programmable Backlit Keys
- Dual Band Capability
- One RF Deck to Multi Head Capable
- User Selectable Tones/Codes
- CTCSS/DCS Encode and Decode
- DTMF Signaling & Dialing Features
- Status quick check
- Emergency Functions
- Audio Compaander
- Dual Watch Scan
- Group Scan & Priority Scan
- Optional Rolling Code Encryption (w/FVP-25)
- BCLO, BTLO and TOT Functions
- Radio to Radio Cloning
- D-sub 25 pin accessory connector
- MIL-STD 810 C/D/E

**Recommended Accessories:**

- Microphone**
- MH-53A7A Noise Canceling Microphone
  - MH-53B7A Noise Canceling Microphone with DTMF Keypad
  - MH-53A8A Heavy Duty Weatherproof Noise Canceling DTMF Mic
  - MH-53C7A Heavy Duty Microphone
  - MD-12A7A Desktop Microphone
  - MD-12A8J Desktop Microphone with multi pin plug
- External Speaker**
- MLS-100 12W External Speaker
  - MLS-200 Waterproof External Speaker (12 Watt Peak)
- Control Heads**
- CNT-5000 Compact Motorcycle Control Head
  - CNT-6000 Multi Control Head Configurations (req. T9206958A)
- Power Supply**
- SEC-1223 Desktop Switching Power Supply

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-5500 Dash Mount Models</b>						
29.7-37 MHz	Low Band	70W	250	AC034L007-VX	VX-5500LA	\$ 922.50
37-50 MHz	Low Band	70W	250	AC034L005-VX	VX-5500LB	\$ 922.50
148-174 MHz	VHF	50W	250	AC034N006-VX	VX-5500VC	\$ 922.50
450-490 MHz	UHF	50W	250	AC034U005-VX	VX-5500UD	\$ 945.00
<b>VX-5500 Dual Band Model</b>						
148-174/450-490 MHz	VHF/UHF	50W	250	AC034N006-VXDB	VX-5500 Dual Band	\$ 2,152.31
<b>VX-5500 Remote Mount Models</b>						
29.7-37 MHz	Low Band	70W	250	AC034L007-VXRM	VX-5500LA Remote Mount	\$ 1,336.95
37-50 MHz	Low Band	70W	250	AC034L005-VXRM	VX-5500LB Remote Mount	\$ 1,336.95
148-174 MHz	VHF	50W	250	AC034N005-VXRM	VX-5500VC Remote Mount	\$ 1,336.95
450-490 MHz	UHF	50W	250	AC034U005-VXRM	VX-5500UD Remote Mount	\$ 1,359.45

FCC INFORMATION: K66VX-5500L (29.7-50 MHz) / K66VX-5500V (148-174 MHz) / K66VX-5500U (450-490 MHz)

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 MSRP

**VX-5500 Series**  
**Mobiles**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER Model**

**Speaker Microphone Choices:**

QA02625AA	ADD: MH-53C7A Speaker Microphone	\$ 0.00
QA02649AA	ADD: MH-53B7A DTMF Speaker Microphone	\$ 58.00
QA02648AA	ADD: MH-53A7A Noise Cancelling Speaker Microphone	\$ 44.00

**Remote Mount Choices (For Remote Mount Models)**

QA02666AA	ADD: Single Deck / Single Head (includes: (1) MH-53C7A microphone, (1) 6M remote mount cable, (1) RMK-4000H remote mount control head cover, (1) RMK-4000B RF deck cover)	\$ 0.00
QA02665AA	ADD: Single Deck / Dual Heads (includes: (2) MH-53C7A microphones, (2) RMK-4000H remote mount control head covers, (1) RMK-4000B RF deck cover, (2) 6M remote mount cables, (1) CNT-6000 control head, (2) interconnection cables)	\$ 456.55

**Remote Head Choices (for Dual Band Model)**

QA02662AA	ADD: Dual Decks / Single Head (includes: (1) MH-53C7A microphone, (1) RMK-4000H remote mount control head cover, (2) RMK-4000B RF deck covers, (1) 6M remote mount cable, (1) 0.6M remote mount cable, (1) RF Deck)	\$ 0.00
QA02663AA	ADD: Dual Decks / Dual Heads (includes: (2) MH-53C7A microphones, (2) RMK-4000H remote mount control head covers, (2) RMK-4000B RF deck covers, (2) 6M remote mount cables, (1) 0.6M remote mount cable, VHF/UHF heads)	\$ 473.00

**General Options:**

**Programming Option:**

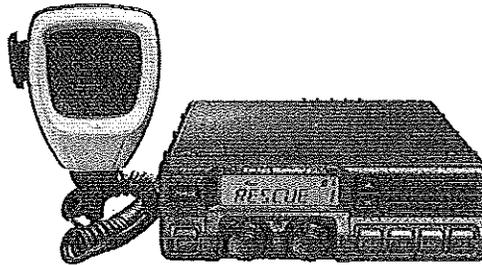
QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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## VX-6000 Series

### Mobiles

High Power LB / UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-6000 mobile models include:  
 MH-53C7A Heavy Duty Microphone  
 Standard 3 Year Warranty



VX-6000

**Radio Features:**

- 250 Channels
- Power Output: 120W Low Band
- 110W VHF, 100W UHF
- Large 8-Digit Alphanumeric Display
- 7 Programmable Backlit Keys
- Dual Band Capability
- One RF Deck to Multi-Head Capable
- Status quick check
- Emergency Functions
- Priority and Group Scan
- Dual Watch Scan
- Audio Compressor
- CTCSS/DCS Encode and Decode
- DTMF Signaling and Dialing Features
- Radio to Radio Cloning
- D-sub 25 pin accessory connector
- Optional Rolling Code Encryption (w/FVP-25)
- BCLO, BTLO and TOT Functions
- Loud 5W/10W Audio Output
- MIL-STD 810 C/D/E

**Recommended Accessories:**

- Microphone**
  - MH-53A7A Noise Canceling Microphone
  - MH-53B7A Noise Canceling Microphone with DTMF Keypad
  - MH-53A8A Heavy Duty Weatherproof Noise Canceling DTMF Mic
  - MH-53C7A Heavy Duty Microphone
  - MD-12A7A Desktop Microphone
  - MD-12A8J Desktop Microphone with multi pin plug
- External Speaker**
  - MLS-100 12W External Speaker
  - MLS-200 Waterproof External Speaker (12 Watt Peak)
- Control Heads**
  - CNF-6000 Multi Control Head Configurations (req. T9206958A)
- Power Supply**
  - FP-1030A External Power Supply

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-6000 Dash Mount Models</b>						
37-50 MHz	Low Band	120W	250	AC024L005-VX	VX-6000LB	\$ 1,380.00
148-174 MHz	VHF	110W	250	AC024N005-VX	VX-6000VC	\$ 1,523.75
450-490 MHz	UHF	100W	250	AC024U005-VX	VX-6000UD	\$ 1,581.25
<b>VX-6000 Dual Band Model</b>						
148-174/450-490 MHz	VH//UHF	110W	250	AC024N005-VXDB	VX-6000 Dual Band	\$ 3,347.65
<b>VX-6000 Remote Control Head Models</b>						
37-50 MHz	Low Band	120W	250	AC024L005-VXRM	VX-6000LB Remote Mount	\$ 1,628.40
148-174 MHz	VHF	110W	250	AC024N005-VXRM	VX-6000VC Remote Mount	\$ 1,876.80
450-490 MHz	UHF	100W	250	AC024U005-VXRM	VX-6000UD Remote Mount	\$ 1,934.30

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 MSRP

**VX-6000 Series**  
**Mobiles**  
 High Power LB / UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

**Speaker Microphone Choices (For Dash Mount Models)**

QA02625AA	ADD: MH-53C7A Speaker Microphone	\$ 0.00
QA02649AA	ADD: MH-53B7A DTMF Speaker Microphone	\$ 58.00
QA02648AA	ADD: MH-53A7A Noise Cancelling Speaker Microphone	\$ 44.00

**Remote Mount Choices (For Remote Mount Models)**

QA02661AA	ADD: Single Deck / Single Head (includes: (1) MH-53C7A microphone, (1) 6M remote mount cable, (1) RMK-4000H remote mount control head cover, (1) RMK-4000B RF deck cover)	\$ 0.00
QA02664AA	ADD: Single Deck / Dual Heads (includes: (2) MH-53C7A microphones, (2) RMK-4000H remote mount control head covers, (1) RMK-4000B RF deck cover, (2) 6M remote mount cables, (1) CNT-6000 control head, (2) interconnection cables)	\$ 476.55

**Remote Head Choices (for Dual Band Model)**

QA02667AA	ADD: Dual Decks / Single Head (includes: (1) MH-53C7A microphone, (1) RMK-4000H remote mount control head cover, (2) RMK-4000B RF deck covers, (1) 6M remote mount cable, (1) 0.6M remote mount cable, (1) RF Deck)	\$ 0.00
QA02668AA	ADD: Dual Decks / Dual Heads (includes: (2) MH-53C7A microphones, (2) RMK-4000H remote mount control head covers, (2) RMK-4000B RF deck covers, (2) 6M remote mount cables, (1) 0.6M remote mount cable, VHF/UHF heads)	\$ 473.00

**General Options:**

**Programming Option:**

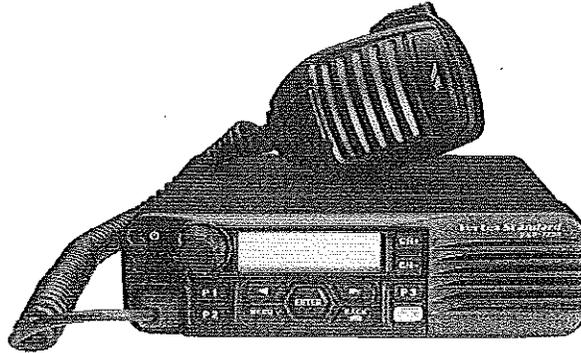
QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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## VXD-7200 Series Mobiles

UHF / VHF Models, 12.5 kHz / 6.25 kHz<sup>6</sup>, Analog/Digital

**VXD-7200 mobile models include:**

- MH-67A8J Standard Microphone
- MMB-93 Low Profile Mounting Kit
- E-DC-27
- Standard 3 Year Warranty



VXD-7200

**Radio Features:**

- 512 Channels
- 4 Programmable Front Panel Keys
- 40 Character Scrolling Alphanumeric Display
- Multi-Color LED Custom Call Alert
- 26 Pin Accessory Connector
- Basic Privacy (Digital Mode)
- Digital Encode/Decode: Call Alert, Private Call, Emergency
- Selective Radio Inhibit, radio check and remote monitor
- MDC-1200<sup>®</sup> analog encode/decode: call alert, emergency and PTT ID
- 2-Tone Analog paging, call alert, call alert w/voice, Select Call
- High Power and Low Power Versions Available

**VXD-7200 Series Radio Cancellation**  
Effective December 31, 2014 or upon depletion of inventory, VXD-7200 Series radios will no longer be available for purchase. For additional details, refer to [VSOL > Resource Center > Product Information > Cancellations](#)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VXD-7200 Series Radio Models</b>						
403-470	UHF	25W	512	AC101U001-VX	VXD-7200-G6-25 403-470 25W	\$ 720.00
450-512	UHF	40W	512	AC101U004-VX	VXD-7200-G7-40 450-512 40W	\$ 750.00

FCC INFORMATION: K6611013030 (134-174 MHz - 25W) / K6611013040 (134-174 MHz - 45W) / K6611014530 (403-470 MHz 25W) / K6611014540 (403-470 MHz 40W) / K6611014740 (450-512 MHz 45W)

## VXD-7200 Series

### Mobiles

UHF / VHF Models, 12.5 kHz / 6.25 kHz<sup>o</sup>, Analog/Digital

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

Speaker Microphone Choices:

QA02737AA	ADD: MH-67A8J STD. MIC	\$	0.00
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Mounting Bracket Choices:

QA02739AA	ADD: MMB-93 Low Profile Trunion Kit	\$	0.00
QA02740AA	ADD:MMB-94 High Profile Trunion Kit	\$	5.83
QA02741AA	ADD: MMB-95 Key Lock Trunion Kit	\$	122.50
QA02820AA	ADD: MMB-96 In Dash Mounting Kit	\$	15.83

Power Cable Choices:

QA02822AA	ADD: E-DC-27 10 ft, 15 amp Cable	\$	0.00
QA02824AA	ADD: E-DC-28 20 ft, 20 amp Cable	\$	21.67

**General Options:**

Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$	50.00
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## Vertex Standard Mobile Accessories

Date 1/19/16

MSRP

VX-2100 VX-2200 VX-4500/4600 VX-5500 VX-6000 EVX-5300/5400 VXD-7200	Model Number	Description	MSRP
<b>Alignment / Service Related</b>			
X X	AAC54X001	CT-88 The CT-88 cable is used in conjunction with the FIF-8 box to make adjustments to the alignment. This is for the VX-4000/VX-5500/VX-6000 mobiles. The CT-88 connects from the DB25 accessory port of the mobile, to the FIF-8 box interfaced to your PC.	\$ 55.00
<b>Control Heads</b>			
X	AAD37X001	CNT-5000 Compact motorcycle control head for VX-4000 & VX-5500s. Includes CNT-5000 control head, mounting bracket (RA0555300), screw kit (U9900163 qty 2), holder (RA0555400 qty 2) & connection cable (T9207073). External microphone (MH-53A8A) & external speaker (MLS-100 or MLS-200) sold separately	\$ 499.00
X X	AAC98X001	CNT-6000 Control Head for multi-head configurations. Requires T9206958A for dual head remotes.	\$ 175.00
<b>Cover Plates</b>			
X X	AAB27X012	Cover plate for the RF Deck in Remote Applications (RMK-4000B)	\$ 65.00
X X	AAB27X011	Cover plate for the Control Head (Includes mounting bracket and hardware) (RMK-4000H)	\$ 105.00
X X	AAD58X001	Dedicated Motorcycle Control Head. Built for ease of use and all weather operation (RMK-5000B)	\$ 179.00
<b>DC Cables</b>			
X X	XUVTN0001	CT-96PS Ignition Sense Cable for the VX-4000, VX-5500 & VX-6000 mobiles	\$ 18.33
X	AAE06X001	E-DC-22 30 ft DC cable for VX-4000/5500 mobiles	\$ 80.00
X	AAE07X001	E-DC-23 30 ft DC cable for VX-6000 mobiles	\$ 160.00
<b>DC Noise Filter</b>			
X X	A09120001	LF-1 Plug-In Line Filter	\$ 35.00
X	AAH67X001	LF-6 DC Line Filter	\$ 35.00
<b>Microphones</b>			
X X X	AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
X X	AAF13X003	MD-12A7A Desktop Microphone	\$ 102.00
X X	AAB02X004	MH-53A7A Noise-Canceling Microphone	\$ 103.00
X X	AAB02X007	MH-53A8A Heavy Duty Weatherproof Noise Canceling DTMF Microphone (for use with CNT-5000)	\$ 149.00
X X	AAB02X006	MH-53C7A Heavy Duty Microphone	\$ 105.00
X X X	AAE60X102	MH-67A8J Standard Microphone	\$ 40.00
X X X	AAG22X101	MH-75A8J DTMF Microphone, 16 Key, Black	\$ 55.00
<b>Misc.</b>			
X	AAH63X001	DVS-8 Digital Voice Storage Unit	\$ 50.00
<b>Mounting Brackets</b>			
X	AAB26X001	MMB-75 Mobile Mounting Bracket ( Supplied w/radio)	\$ 25.00
X	AAB72X001	MMB-76 Locking Mobile Mounting Bracket	\$ 75.00
X	AAB98X001	MMB-77 Locking Mobile Mounting Bracket for the VX-6000	\$ 95.00
X	AAC97X001	MMB-79 Mobile Mounting Bracket (Supplied w/radio VX-6000)	\$ 30.00
X X	AAD62X001	MMB-88 This is a mounting bracket, which is a base plate for the CNT-5000 and MLS-200. The MMB-88 mounts to a motorcycle. The CNT-5000 and MLS-200 then mount to the MMB-88, side by side.	\$ 79.00

## Vertex Standard Mobile Accessories

Date 1/19/16

MSRP

VX-2100	VX-2200	VX-4500/4600	VX-5500	VX-6000	EVX-5300/5400	VXD-7200	Model Number	Description	MSRP
<b>Power Supplies</b>									
X	X	X	X	X			XUSLX0001A	SEC-1223 Desktop Switching Power Supply 120 VAC	\$ 216.88
				X			A12510002	FP-1030A External Power Supply	\$ 345.22
<b>Programming and Installation</b>									
X	X	X				X	AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00
			X	X			AAD67X001	CT-105 FIF-12 interface cable to connect: VX-530/600/800/900 Portables also VX-5500/VX-6000 Mobiles.	\$ 60.00
X	X	X				X	T9101411	CT-4 Programming Cable - Radio to Radio Cloning	\$ 27.61
			X	X			AAA26X001	CT-72 Cloning Cable (Set-to-Set Clone)	\$ 68.00
X	X	X	X	X	X		AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for	\$ 150.00
X	X	X	X	X			A06420002	VX VPL-1 Programming cable from PC. Check specific models for additional	\$ 87.00
			X	X			T9101628	SVC-49 Alignment Cable for FIF-12	\$ 30.81
			X	X			L9190148	Ferrite Snap-on Bead for control cable	\$ 5.31
			X	X			L9190128	Ferrite Snap-on Bead for microphone cable	\$ 2.84
X	X	X					AAJ06X001	FRB-6 Tuning Interface (Requires Connection Cable)	\$ 340.00
X	X	X					AAJ07X001	CT-159 Connection Cable (Requires FRB-6)	\$ 58.34
			X	X			AAC49X002	FIF-7A Interface Board (for VX-4000 / 5500 / 6000 with FVP-25, FVP-35,	\$ 37.00
<b>Remote Cables</b>									
		X					AAJ01X001	CT-156 Remote Mount Cable (3M)	\$ 80.00
		X					AAJ02X001	CT-157 Remote Mount Cable (5M)	\$ 85.00
		X					AAJ03X001	CT-158 Remote Mount Cable (7M)	\$ 95.00
			X	X			AAC04X001	CT-81 Remote Cable for RMK-4000 series (20 ft) (RF Deck to Control	\$ 90.00
			X	X			AAC05X001	CT-82 Remote Cable for RMK-4000 series (8 ft) (RF Deck to Control Head)	\$ 80.00
			X	X			AAC06X001	CT-83 Remote Cable for RMK-4000 series (2 ft) (RF Deck to RF Deck)	\$ 70.00
			X	X			AAD07X001	CT-93 Remote Cable for RMK-4000 series (30 ft) (RF Deck to Control)	\$ 96.34
		X					AAH66X101	RMK-4600 Remote mount kit	\$ 65.00
<b>Speaker</b>									
X	X	X	X	X	X		A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X	X	X	X	X			AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00
<b>Signalling</b>									
X	X		X	X			A12760001	FVP-25 Encryption Unit (Band Inversion Type) and DTMF Paging. (requires	\$ 60.00
X	X		X	X			AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the	\$ 346.00
X	X		X	X			XUCMR0003	VME-100 Board for MDC1200 Digital ANI (FIF-7 also required when being installed in VX-5500/6000)	\$ 69.31
		X	X	X			A12760003	FVP-36 INVERSION SCRAMBLING UNIT	\$ 40.00

**Vertex Standard Trunking Mobiles  
Accessories**

Date 1/19/16

MSRP

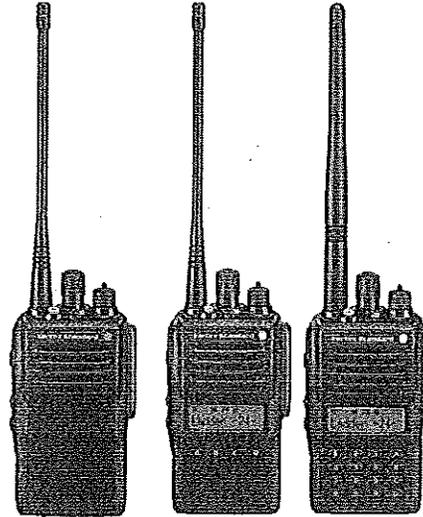
VX-2200A	Model Number	Description	MSRP
<b>Alignment / Service Related</b>			
X	AAC92X001	CT-92 FIF-8 cable to the Mobiles VX-3200/VX-4200/VX-4200/VX-2500. Used for updating firmware using the FIF-8 firmware writer.	\$ 23.00
<b>DC Noise Filter</b>			
X	A09120001	LF-1 Plug-In Line Filter	\$ 35.00
<b>Microphones</b>			
X	AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
X	AAE60X102	MH-67A8J Standard Microphone	\$ 40.00
X	AAG22X101	MH-75A8J DTMF Microphone, 16 Key, Black	\$ 55.00
<b>Power Supply</b>			
X	XUSLX0001A	SEC-1223 Desktop Switching Power Supply 120 VAC	\$ 216.88
<b>Programming and Installation</b>			
X	AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00
X	T9101411	CT-4 Programming Cable - Radio to Radio Cloning	\$ 27.61
X	AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional cable pigtails. Pigtails not included.	\$ 150.00
X	A06420002	VX VPL-1 Programming cable from PC. Check specific models for additional cable pigtails.	\$ 87.00
<b>Signalling</b>			
X	AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000. Requires VX MPI for programming	\$ 346.00
X	XUCMR0003	VME-100 Board for MDC1200 Digital ANI (FIF-7 also required when being installed in VX-5500/6000)	\$ 69.31
<b>Speaker</b>			
X	A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X	AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00

## VX-P820 Series

### P25 Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-P820 Series portable models packages can include:**  
**FNB-V128LI-UNI 2300 mAh Li-Ion Battery**  
**VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)**  
**Antenna Option**  
**Standard 3 Year Warranty**



VX-P821 VX-P824 VX-P829

**Radio Features:**

- 512 Channels/32 Groups (W/LCD) 16 Channels (w/o LCD)
- 12 Character Alpha Numeric Display/Full Keypad
- RSSI & Battery Life Indicator\* (Excludes VX-P821)
- Loud 700 mW Audio Output
- 3 Programmable Keys (P821) , 7 Keys (P824), 9 Keys (P829)
- IP57 Submersibility Rating
- MIL-STD C/D/E/F

**Analog Only Features:**

- CTCSS/DCS Encode and Decode
- DTMF ANI
- Optional DTMF Paging
- Built In 5-Tone Signaling
- Audio Compressor
- 2-Tone Encode & Multi 2-Tone Decode
- Lone Worker
- ARTS™ (Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- TX/RX Battery Save
- User Selectable Tone\* (Not available on P821)
- MDC-1200 Encode (PTT ID, Emergency ID)

**Analog Mode and P25 Digital Conventional Mode:**

- Emergency Feature
- Versatile Scanning (Priority Scan, Dual Watch, Follow-Me Scan, Follow Me-DW and TA Scan) AF Minimum Volume
- Direct Channel Recall \*(Excludes VX-P821)
- User Set Mode\* (Excludes VX-P821)

**P25 Digital Conventional Mode Only:**

- AMBE+2™ Vocoder
- NAC (Network Access Code)
- Talk Group ID
- Individual ID Lists \*(Excludes VX-P821)
- Caller ID Display \*(Excludes VX-P821)
- RSSI Audible Alert
- Mxed Mode
- BCLO and TOT
- Optional AES/DES Encryption

**Recommended Accessories:**

- Speaker Microphones**
  - MH-50D7A Noise Canceling Speaker Microphone
  - MH-66A IP57 Submersible Speaker Microphone
  - MH66-B7A IP57 Submersible with PF Key and Toggle
- Headsets and Surveillance**
  - VH-111 Heavy Duty Over the Head Headset
  - VH-121 3-Wire Earpiece, Mic w/Palm PTT-Switch
  - VH-131 2-Wire Earpiece, Palm Mic/PTT Combo
- Multi-Unit Chargers**
  - VAC-6058 120/240V 6 Unit Rapid Charger (Use with FNB-V127LI, FNB-V87LIA, and FNB-V92L/LIIS only)
- Carry Cases**
  - LCC-820S Leather/FNB-V128LI, and FNB-V129LI-UNI only)
  - LCC-820S/TT Leather Case w/Swivel & Keypad Opening

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-P821 Radio Models</b>						
134-174 MHz	VHF	1-5W	16	AC058N211-VX	VX-P821-D0-5	\$ 1,758.00
380-450 MHz	UHF	1-5W	16	AC058U234-VX	VX-P821-G6-5	\$ 1,858.00
450-512 MHz	UHF	1-5W	16	AC058U219-VX	VX-P821-G7-5	\$ 1,858.00

FCC INFORMATION: K6510583021 (134-174 MHz) / K6510584621 (403-512 MHz)

## VX-P820 Series

Date 1/19/16

### P25 Portables

MSRP

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		MSRP
<b>VX-P824 Radio Models</b>						
134-174 MHz	VHF	1-5W	512	AC058N212-VX	VX-P824-D0-5	\$ 1,878.00
380-450 MHz	UHF	1-5W	512	AC058U235-VX	VX-P824-G8-5	\$ 1,978.00
450-512 MHz	UHF	1-5W	512	AC058U220-VX	VX-P824-G7-5	\$ 1,978.00
<b>VX-P829 Radio Models</b>						
134-174 MHz	VHF	1-5W	512	AC058N213-VX	VX-P829-D0-5	\$ 2,058.00
380-450 MHz	UHF	1-5W	512	AC058U236-VX	VX-P829-G8-5	\$ 2,158.00
450-512 MHz	UHF	1-5W	512	AC058U221-VX	VX-P829-G7-5	\$ 2,158.00

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

**Battery Choices:**

STDBAT0868AC	ADD: STD BATTERY FNB-V128LI-UNI 2300 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 0.00
QA03902AA	ADD: FNB-V127LI-UNI 1380 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ (16.00)
QA04398AA	ADD: FNB-V129LI-UNI 3000 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 60.00
QA04972AA	ADD: FNB-V129LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-UNI Charger)	\$ 118.34
QA02488AA	ADD: FNB-V87LIA 2300 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 8.33
QA02659AA	ADD: FNB-V86LIA 1380 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ (7.67)
QA02660AA	ADD: FNB-V92LI 3000 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 68.33

**Charger Choices:**

STDCHG0868AA	ADD: VAC-UNI 120V Standard Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA02742AA	ADD: VAC-921B 120V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02743AA	ADD: VAC-921C 240V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02481AA	DELETE: Charger	\$ (36.00)

**Antenna Choices:**

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna (For G6 Models)	\$ 0.00
QA02617AA	ADD: ATU-6A 400-430 MHz Antenna (For G8 Models)	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

**General Options:**

**Programming Option: \*\*Encryption options are factory installed\*\***

QA02502AA	ADD: AES/DES Encryption Programming	\$ 550.00
QA02724AA	ADD: Customer Codeplug Factory Programming	\$ 50.00

**Shipping Option:**

STDBOX0868AA	Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

## VX-P920 Series P25 Portables

UHF / VHF Models, 12.5 kHz / 26 kHz, Analog

**VX-P920 Series portable models packages can include:**  
 FNB-V128LI-UNI 2300 mAh Li-Ion Battery  
 VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)  
 Antenna Option  
 Standard 3 Year Warranty

**Radio Features:**

512 Channels/32 Groups (W/LCD) 48 Channels (w/o LCD)  
 12 Character Alpha Numeric Display/Full Keypad  
 RSSI & Battery Life Indicator\* (Excludes VX-P921)  
 Loud 700 mW Audio Output  
 8 Programmable Keys (P924), 10 Programmable Keys (P929)  
 IP57 Submersibility Rating  
 MIL-STD C/D/E/F

**Analog Only Features:**

CTCSS/DCS Encode and Decode  
 DTMF ANI / Optional DTMF Paging  
 Built In 5-Tone Signaling  
 Audio Compressor  
 2-Tone Encode & Multi 2-Tone Decode

**Lone Worker**

ARTS™ (Auto-Range Transpond System)  
 Clear Voice  
 BCLO, BTLO and TOT Functions

**TX/RX Battery Save**

User Selectable Tone\* (Not available on P921)

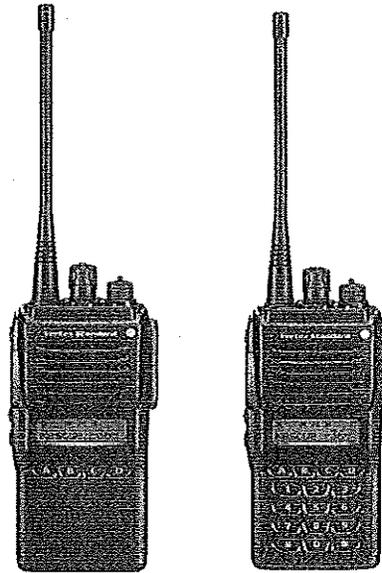
MDC-1200 Encode (PTT ID, Emergency ID)

**Analog Mode and P25 Digital Conventional Mode:**

- Emergency Feature
- Versatile Scanning (Priority Scan, Dual Watch, Follow-Me Scan, Follow Me-DW and TA Scan)
- AF Minimum Volume
- Direct Channel Recall \*(Excludes VX-P921)
- User Set Mode\* (Excludes VX-P921)

**P25 Digital Conventional Mode Only:**

- AMBE+2™ Vocoder
- NAC (Network Access Code)
- Talk Group ID
- Individual ID Lists \*(Excludes VX-P921)
- Caller ID Display \*(Excludes VX-P921)
- RSSI Audible Alert
- Mixed Mode
- BCLO and TOT
- Optional AES/DES Encryption



VX-P924

VX-P929

**Recommended Accessories:**

**Speaker Microphones**

- MH-50D7A Noise Canceling Speaker Microphone
- MH-66A IP57 Submersible Speaker Microphone
- MH66-B7A IP57 Submersible with PF Key and Toggle

**Headsets and Surveillance**

- VH-111 Heavy Duty Over the Head Headset
- VH-121 3-Wire Earpiece, Mic w/Palm PTT-Switch
- VH-131 2-Wire Earpiece, Palm Mic/PTT Combo

**Multi-Unit Chargers**

- VAC-6058 120/240V 6 Unit Rapid Charger (Use with FNB-V127LI, FNB-V87LIA, and FNB-V92LI/LIIS only)

**Carry Cases**

- LCC-920S Leather FNB-V128LI, and FNB-V129LI-UNI only)
- LCC-920S/TT Leather Case w/Swivel and Keypad Opening

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP	
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL			
<b>VX-P924 Radio Models</b>							
	134-174 MHz	VHF	1-5W	512	AC033N219-VX	VX-P924-D0-5	\$ 1,678.00
	380-450 MHz	UHF	1-5W	512	AC033U242-VX	VX-P924-G8-5	\$ 1,778.00
	450-512 MHz	UHF	1-5W	512	AC033U227-VX	VX-P924-G7-5	\$ 1,778.00
<b>VX-P929 Radio Models</b>							
		VHF	1-5W	512	AC033N220-VX	VX-P929-D0-5	\$ 1,858.00
	380-450 MHz	UHF	1-5W	512	AC033U243-VX	VX-P929-G8-5	\$ 1,958.00
	450-512 MHz	UHF	1-5W	512	AC033U228-VX	VX-P929-G7-5	\$ 1,958.00

FCC INFORMATION: K6610333020 (134-174 MHz) / K6610334620 (403-470 MHz) / K6510334720 (450-512 MHz)

## VX-P920 Series

### P25 Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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**Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP**

**Battery Choices:**

STDBAT0868AC	ADD: STD BATTERY FNB-V128LI-UNI 2300 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 0.00
QA03902AA	ADD: FNB-V127LI-UNI 1380 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ (16.00)
QA04398AA	ADD: FNB-V129LI-UNI 3000 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 60.00
QA04972AA	ADD: FNB-V129LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-UNI Charger)	\$ 118.34
QA02488AA	ADD: FNB-V87LIA 2300 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 8.33
QA02659AA	ADD: FNB-V86LIA 1380 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ (7.67)
QA02660AA	ADD: FNB-V92LI 3000 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 68.33

**Charger Choices:**

STDCHG0868AA	ADD: VAC-UNI 120V Standard Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA02742AA	ADD: VAC-921B 120V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02743AA	ADD: VAC-921C 240V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02481AA	DELETE: Charger	\$ (36.00)

**Antenna Choices:**

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna (For G6 Models)	\$ 0.00
QA02617AA	ADD: ATU-6A 400-430 MHz Antenna (For G8 Models)	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

**General Options:**

**Programming Option: \*\*Encryption options are factory installed\*\***

QA02502AA	ADD: AES/DES Encryption Programming	\$ 550.00
QA02724AA	ADD: Customer Codeplug Factory Programming	\$ 50.00

**Shipping Option:**

STDBOX0868AA	Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

## Vertex Standard P25 Portable Accessories

Date 1/19/2016

MSRP

VX-P820 VX-P920	Model Number	Description	MSRP
<b>Alignment/ Service Related</b>			
X	X	AAD94X001 CT-110 Firmware writing cable (For use with the FIF-8)	\$ 65.00
<b>Alkaline Battery Cases</b>			
X	X	AAE11X002 FBA-34 Alkaline Battery Case VX-820/920 series	\$ 45.00
<b>Antennas</b>			
	X	XUCET0010 ATU-6A 400-430 MHz / Brown / 6.5" / VX10UA/600/800/900	\$ 14.00
	X	XUCET0011 ATU-6AS Antenna 410-430 MHz / 3.5"	\$ 13.00
X	X	XUCET0012 ATU-6D 450-485 MHz / Red / 6" / VX-10/160/180/210/400/600/800/900	\$ 14.00
X	X	XUCET0013 ATU-6DS Antenna 450-485 MHz / 3.5"	\$ 14.00
X	X	XUCET0033 ATV-10A High Gain Antenna, 145-155MHz (Red) / 10.5"	\$ 16.00
X	X	XUCET0034 ATV-10B High Gain Antenna, 150-160MHz (Brn) / 10.5"	\$ 16.00
X	X	XUCET0035 ATV-10C High Gain Antenna, 155-165MHz (Blk) / 10.5"	\$ 16.00
X	X	XUCET0036 ATV-10E High Gain Antenna, 165-175MHz (Org) / 10.5"	\$ 16.00
X		XUCET0019 ATV-6A Antenna 134-151 MHz / 4"	\$ 13.00
X	X	XUCET0020 ATV-6B Antenna 150-163 MHz / 3.5"	\$ 15.00
X	X	XUCET0021 ATV-6C Antenna 161-174 MHz / 3.5"	\$ 13.00
X	X	XUCET0022 ATV-6XL Untuned VHF Antenna 7"	\$ 14.00
X	X	XUCET0023 ATV-8A Antenna 134-150 MHz / Sable / 6"	\$ 14.00
X	X	XUCET0024 ATV-8B Antenna 150-163 MHz / Sable / 6"	\$ 14.00
X	X	XUCET0025 ATV-8C Antenna 162-174 MHz / Sable / 6"	\$ 14.00
	X	AAE64X001 ATW-1A Dual-band antenna for multi-band Rx: 134-151MHz / 450-520MHz	\$ 28.00
	X	AAE64X002 ATW-1B Dual-band antenna for multi-band Rx: 150-163MHz / 450-520MHz	\$ 28.00
	X	AAE64X003 ATW-1C Dual-band antenna for multi-band Rx: 161-174MHz / 450-520MHz	\$ 28.00
<b>Batteries</b>			
X	X	AAD83X021 FNB-V87LIA 7.4V 2300mAh Li-Ion Battery	\$ 88.33
X	X	AAD82X021 FNB-V86LIA 7.4 V 1380mAh Li-Ion Battery	\$ 72.33
X	X	AAJ62X001 FNB-V128LI-UNI 2300 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 80.00
X	X	AAJ61X001 FNB-V127LI-UNI 1380 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 64.00
X	X	AAJ63X001 FNB-V129LI-UNI 3000 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 140.00
X	X	AAL73X001 FNB-V129LIIS 3000 mAh Li-Ion Battery, Intrinsically Safe (VAC-UNI Charger)	\$ 160.00
<b>Belt Clips</b>			
	X	AAE85X001 CLIP17-A Swivel Belt Clip	\$ 16.00
X		AAE85X002 CLIP17-B Swivel Belt Clip	\$ 16.00
X		AAE52X001 CLIP-820 Belt Clip for the VX-820 Series (TM)	\$ 10.00
X		AAE51X001 CLIP-920 Belt Clip for the VX-920 Series (TM)	\$ 10.00
<b>Cases</b>			
X		XUBEE0048 LCC-820 Leather case with Belt Loop	\$ 32.00
X		XUBEE0069 LCC-820H Leather case with belt loop. For use with VX-821/P821 and FNB - V92LI ( and IS ) battery	\$ 32.00
X		XUBEE0073 LCC-820H/TT Leather case with belt loop. For use with VX-829/P829 and FNB-V92LI (and IS) battery	\$ 32.00
X		XUBEE0046 LCC-820S Leather Case with Swivel and Belt Loop	\$ 42.00
X		XUBEE0047 LCC-820S/TT Leather Case w/Swivel, Belt Loop and Keyboard Opening	\$ 42.00
X		XUBEE0068 LCC-820SH Leather case with D Swivel. For use with VX-821/P821 and FNB - V92LI ( and IS ) battery	\$ 42.00
X		XUBEE0072 LCC-820SH/TT Leather case with D swivel. For use with VX-829/P829 and FNB - V92LI ( and IS ) battery	\$ 42.00
	X	XUBEE0075 LCC-920H Leather case with belt loop. For use with VX-921/P921 and FNB - V92LI ( and IS ) battery	\$ 32.00
	X	XUBEE0079 LCC-920H/TT Leather case with belt loop. For use with VX-929/P929 and FNB - V92LI ( and IS ) battery	\$ 32.00

### Vertex Standard P25 Portable Accessories

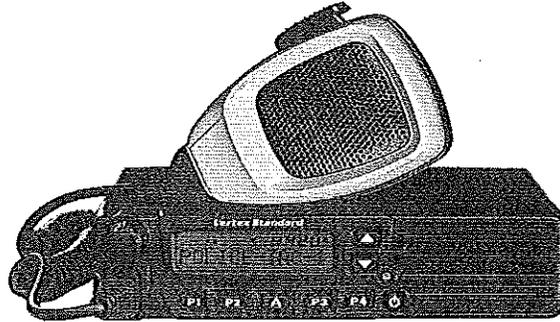
Date 1/19/2016

MSRP

VX-P820 VX-P920	Model Number	Description	MSRP
<b>Cases (Continued)</b>			
X	XUBEE0049	LCC-920S Leather Case with Swivel and Belt Loop	\$ 42.00
X	XUBEE0050	LCC-920S/TT Leather case w/ Swivel Clip and Keyboard Cut-Out	\$ 42.00
X	XUBEE0074	LCC-920SH Leather case with D Swivel. For use with VX-921/P921 and FNB - V92LI ( and IS) battery	\$ 42.00
X	XUBEE0078	LCC-920SH/TT Leather case with D swivel. For use with VX-929/P929 and FNB - V92LI ( and IS ) battery	\$ 42.00
X	XUBEE0051	LCC-920TT Leather Case w/Belt Loop and Keypad Cut-out	\$ 32.00
<b>Chargers</b>			
X	XUAAK44X001	VAC-6058 120V MUC FOR UNI LIION BATTERY	\$ 450.00
X	XUAAK44X002	VAC-6058 220V EU MUC FOR UNI LIION BATTERY	\$ 450.00
X	XUAAE45X00101	VAC-921B 120 VAC Desktop Rapid charger	\$ 72.33
X	XUAAE45X00102	VAC-921C 240 VAC Desk top rapid charger	\$ 72.33
X	XUAAJ72X001	VAC-UNI-B 120V US Universal Charger (For use with -UNI batteries)	\$ 36.00
X	XUAAJ72X002	VAC-UNI-C 220V EU Universal Charger (For use with -UNI batteries)	\$ 36.00
X	AAF15X001	VCM-2 Vehicular Charger Mounting Adapter Kit for VAC-920 & VAC-300	\$ 60.00
X	AAK45X001	VCM-5 Vehicle Charger Mounting Adapter – UNI Charger/Batteries Only	\$ 72.00
<b>Headsets and Surveillance</b>			
X	AAE72X001	VH-111 Heavy Duty, Dual Muff, Over the head style, with Boom Mic	\$ 400.00
X	AAG49X003	VH-215L Headset	\$ 115.70
<b>Programming and Installation</b>			
X	AAD92X001	CT-108 PC programming cable (for use with the FIF-12 or FIF-12A USB Interface)	\$ 65.00
X	AAE50X001	CT-116 Radio to Radio Programming Cable	\$ 65.00
X	AAF83X001	CT-127 Keyloader adapter cable for VX-P820/870 & VX-P920/970 series P25 radios with encryption option. Required CT-129 or Motorola TKN8531C.	\$ 50.00
X	XUMOT0001	CT-129 Keyloader interface cable for KVL-3000+. Use with either CT-127 (for portables) or CT-128 (for mobiles) for programming encryption keys into radio.	\$ 199.00
X	AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional cable pigtails. Pigtails not included.	\$ 150.00
<b>Speaker Microphones</b>			
X	AAA75X004	MH-50D7A Public Safety Speaker Microphone w/toggle, MIL-STD Rated	\$ 94.00
X	AAE46X001	MH-66A7A Submersible Noise Canceling Speaker Microphone	\$ 92.00
X	AAE46X002	MH-66B7A Submersible Speaker Microphone with 2 Programmable Function keys and Audio Attenuator Switch.	\$ 180.00

**VX-7200 Series**  
**P25 Mobiles**  
 P25 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

**VX-7200 mobile models include:**  
 MH-67A8J Standard Microphone  
 Standard 3 Year Warranty



**VX-7200**

**Radio Features:**

- 8 Channels/ 1 Group VX-7100
- 501 Channels/ 32 Groups VX-7200
- 12 Character, 7 Segment 3 Char. Large LCD (7200 only)
- 3 Programmable Keys (7100)/5 Keys (7200)
- D-Sub 15 Pin Accessory Connector
- MIL-STD 810 C/D/E/F

**Analog Only Features:**

- DTMF AN/DTMF Paging\* (Paging only on VX-7200)
- 2-Tone Encode and Multi-2-Tone Decoding
- CTCSS/DCS Encode and Decode
- BCLO, BTLO and TOT Functions
- User Selectable Tone\* (Only on VX-7200)
- ARTS™ (Auto-Range Transpond System)
- Audio Compressor

**Analog and P25 Digital Mode:**

- Minimum Volume
- Built In Emergency Microphone
- Public Address/Horn Alert
- Emergency Feature
- Group Scan/Priority Scan

**P25 Digital Mode Only:**

- P25 Digital Conventional Only
- AMBE+2™ Vocoder
- NAC (Network Access Code)
- Talk Group ID
- Individual ID lists (VX-7200 only)
- Caller ID Display (VX-7200 only)
- RSSI Audible Alert
- Mixed Mode
- BCLO and TOT
- Optional AES/DES Encryption

**Recommended Accessories:**

- Microphone
  - MD-12A8J Desktop Microphone
  - MH-75A8J DTMF Microphone
  - MH-67A8J Standard Microphone
- External Speaker
  - MLS-100 12W External Speaker
  - MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VX-7200 Series Radio Models</b>						
134-174	VHF	50W	512	AC060N002-VX	VX-7200-D0-50 134-174 50W	\$ 1,874.00
450-512	UHF	45W	512	AC060U002-VX	VX-7200-G7-45 450-512 45W	\$ 1,974.00
380-450	UHF	45W	512	AC060U004-VX	VX-7200-G8-45 380-450 45W	\$ 1,974.00

FCC INFORMATION: K6610603040 (134-174 MHz) / K6610604840 (403-470 MHz) / K6610604740 (450-512 MHz)

# VX-7200 Series

## P25 Mobiles

P25 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Microphone Choices:

QA02644AA	ADD: Speaker Mic MH-67A8J	\$ 0.00
QA02637AA	ADD: DTMF Mic MH-75A8J	\$ 15.00

General Options:

Programming Option: \*\*Encryption options are factory installed\*\*

QA02722AA	ADD: AES/DES Encryption Programming	\$ 550.00
QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00

**Vertex Standard P25 Mobiles  
Accessories**

Date 1/19/2016

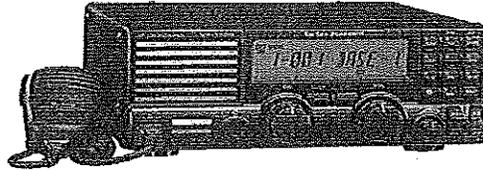
MSRP

VX-7200	Model Number	Description	MSRP
	<b>DC Cables</b>		
X	AAE06X001	E-DC-22 30 ft DC cable for VX-4000/5500 mobiles	\$ 80.00
	<b>DC Noise Filters</b>		
X	A09120001	LF-1 Plug-In Line Filter	\$ 35.00
	<b>Microphones</b>		
X	AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
X	AAG22X101	MH-75A8J DTMF Microphone	\$ 55.00
X	AAE60X102	MH-67A8J Standard Microphone	\$ 40.00
	<b>Mounting Brackets</b>		
X	AAD48X001	MMB-85 Quick Release Mobile Bracket for VX-4100/4200	\$ 75.00
	<b>Power Supply</b>		
X	XUSLX0001A	SEC-1223 Desktop Switching Power Supply 120 VAC	\$ 216.88
	<b>Programming and Installation</b>		
X	AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00
X	AAF84X001	CT-128 Keyloader adapter cable for VX-7100 & VX-7200 series P25 mobile radios with encryption option. Required CT-129 or Motorola TKN8531C.	\$ 50.00
X	XUMOT0001	CT-129 Keyloader interface cable for KVL-3000+. Use with either CT-127 (for portables) or CT-128 (for mobiles) for programming encryption keys into radio.	\$ 199.00
X	AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional cable pigtailed. Pigtailed not included.	\$ 150.00
X	A06420002	VX-VPL-1 Programming cable from PC. Check specific models for additional cable pigtailed.	\$ 87.00
	<b>Speaker</b>		
X	A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X	AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00

LMR HFSSB - Page 57  
 Date 1/19/16  
 MSRP

**VX-1700 Series**  
**HFSSB**  
 Single Side Band

**VX-1700 mobile models include:**  
 MH-31A8J - Standard Microphone  
 Standard 3 Year Warranty



VX-1700

**Radio Features:**

- 200 Memory Channels (arranged in 5 banks)
- Four Programmable Keys
- Alphanumeric Labeling of Memory Channels
- A1A (CW), J3E (LSB/USB), A3E (AM), J2B (USB/LSB)
- Flexible calling options: SELCALL, TELCALL, Message Call,
- Dual Watch Operation
- VOX
- Noise Blanker
- Dimmer Function
- CW Side Tone Function
- CW Semi-break-in
- PC Programmable
- MIL-STD 810 D/E/F
- Optional Mobile Antenna
- ALE Operation (Requires ALE-1 unit Option)
- Power Output:

125W (A1A, J2B, J3E @ 1.6000 ~ 3.9999 MHz)  
 100W (A1A, J2B, J3E @ 4.0000 ~ 30.000 MHz)  
 31W (A3E @ 1.6000 ~ 3.9999 MHz)  
 25W (A3E @ 4.0000 ~ 30.000 MHz)

**Recommended Accessories:**

- Power Supply
  - FP-1030A 30A Power Supply 110V
- Microphone
  - MD-100A8X Desktop Microphone
  - MH-31A8J Dynamic Hand Microphone
  - MD-12A8J Desktop Microphone
- Speaker
  - MLS-100 External Speaker (12W)
  - MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS					NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL			
<b>VX-1700 Radio Model</b>							
1.6-30 MHz	Low Band	125W	200	AC051H003-VX	VX-1700-A0-125		\$ 1,280.40

FCC INFORMATION K6610511070

OPTION SELECTION	DESCRIPTION	MSRP
<b>Programming Option:</b> QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00

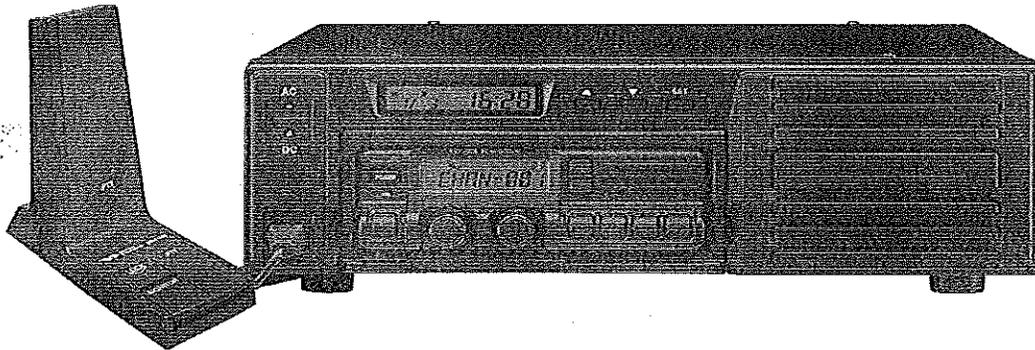
## Vertex Standard HFSSB Accessories

Date 1/19/2016

**MSRP**

VX-1700	Model Number	Description	MSRP
<b>Antennas</b>			
X	D8000240	YA-007FG HF Multiband Mobile Antenna 7-30 MHz (Requires FC-40)	\$ 216.00
X	A00590003	YA-30 Broadband T2FD Dipole Base Station Antenna 77ft	\$ 369.00
X	AAF76X001	YA-31 Broadband HF Antenna 49 ft.	\$ 385.00
<b>HF Antenna Tuners</b>			
X	AAC86X002	FC-30 Automatic Antenna Tuner (For coaxial lines)	\$ 237.00
X	AAD77X002	FC-40 The FC-40 is a new, wide-range Antenna Coupler for the FT-450, FT-857, and FT-	\$ 412.00
<b>Microphones</b>			
X	A06880001	MD-100A8X Desktop Microphone	\$ 183.75
X	A06870001	MH-31A8J Dynamic Hand Microphone	\$ 54.00
X	AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
<b>Mounting Brackets</b>			
X	AAE67X001	MMB-89 One-Touch Mobile Bracket	\$ 45.00
<b>Power Supply</b>			
X	A12510002	FP-1030A 30A Power Supply 110V	\$ 345.22
<b>Programming and Installation</b>			
X	A13860001	CT-62 Programming Cable	\$ 40.00
<b>Signaling</b>			
X	AAE56X001	ALE-1 Automatic Link Establishment Unit	\$ 700.00
<b>Speaker</b>			
X	A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X	AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00

**BSC-5000**  
**Repeaters/Base Stations**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog



**BSC-5000**

Base Station Features:

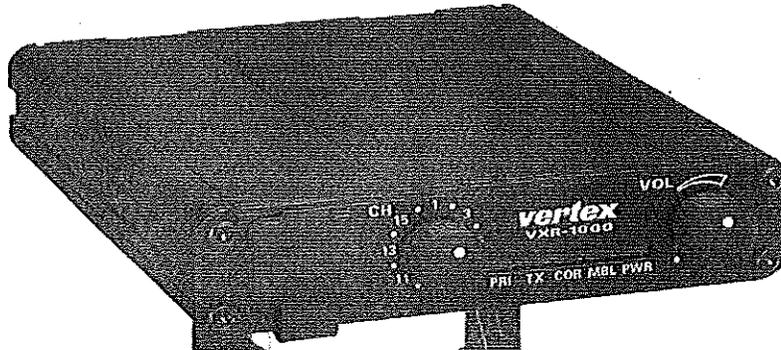
- Creates a Base Station by installing VX-5500 or VX-6000 Series Mobile
- Internal AC Switching Power Supply or External DC Supply
- Automatic Switch-over to Backup battery
- Digital Clock (12 H or 24 H)
- Loud Speaker (12W) and Clear Sound

Recommended Accessories:

- Microphone
- MD-12A8J Desktop Microphone

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>BSC-5000 Base Station Model</b>						
N/A	N/A	N/A	N/A	AAD38X001-VX	BSC-5000	\$ 1,995.00

**VXR-1000 Series**  
**Repeaters/Base Stations**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog



VXR-1000

Repeater Features:

- 16 Channels
- D-sub 9 pin connector
- 5W Power Output
- 12.5/25 kHz Bandwidth (Programmable by Channel)
- CTCSS/DCS Encode & Decode
- ARTS™ (Auto Range Transponder System)
- Command Control (Allows repeater to talk directly with Portable)
- Built In Voice Inversion Encryption (Allows Secure voice between VXR-1000 and Portable)
- Local Volume Control (Requires External Speaker)
- First on Scene Logic with Priority Sampling
- Compatible with Most Popular Trunking Protocols
- Compatible with Most Low Band, VHF and UHF Systems
- PC Programmable
- MIL-STD 810 C/D/E

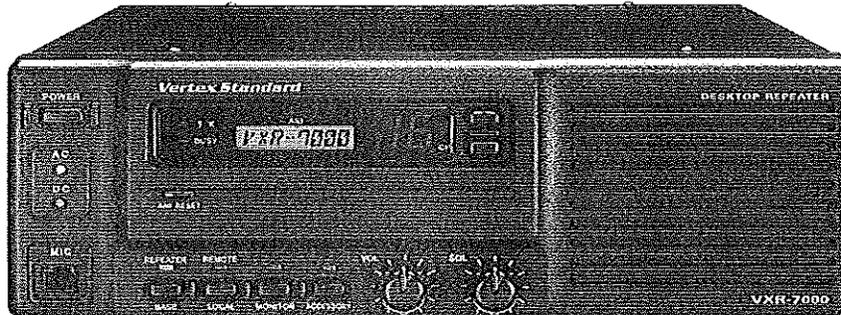
Recommended Accessories:

- Microphone
- MH-67A8J Standard Microphone
- Speaker
- MLS-100 External Speaker (12W)
  - MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VXR-1000 Series Repeater Models</b>						
150-174 MHz	VHF	5W	16	A13710001-VX	VXR-1000V	\$ 599.00
450-470 MHz	UHF	5W	16	A13370001-VX	VXR-1000U	\$ 599.00

## VXR-7000 Series Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog



### VXR-7000

**Repeater Features:**

- 16 Channel Synthesized
- 8 Character ANI / ENI ID Display
- 47 CTCSS / 108 DCS Encode / Decode
- 5-Tone Encode / Decode
- Multi-Tone Decode
- DTMF Encode / Decode
- D-Sub 25 pin accessory connector
- 10 to 50W Power Output (100% Duty)
- CW Transmitter ID (Dealer Programmed)
- 12.5/25 kHz Bandwidth Prog 16 Tones/Codes
- Time-Out Timer, Hang Timer, Guard Timer (Dealer Programmed)
- Busy Channel Lockout (BLCO)
- Busy Tone Lockout (BTLO)
- Selectable Repeater Mode or Base Transceiver Mode
- Selectable Local Mode or Remote Mode
- AC Power Supply Voltage Selection (115/230 VAC <math>\pm 10\%> Dealer Selectable)
- Automatic DC Power Supply Backup
- Optional Internal Duplexer (Limit 40W)
- PC Programmable
- ACC Connector Port & Line Interface Port
- Optional VX-Trunk Operational

**Recommended Accessories:**

- Microphone
- MH-67A8J Standard Microphone
- MD-12A8J Desktop Microphone

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VXR-7000 Repeater Models</b>						
136-150 MHz	VHF	50W	16	A13670012-VX	VXR-7000VA	\$ 1,600.00
150-174 MHz	VHF	50W	16	A13670010-VX	VXR-7000VC	\$ 1,650.00
400-430 MHz	UHF	50W	16	A13680004-VX	VXR-7000UA	\$ 1,650.00
450-480 MHz	UHF	50W	16	A13680014-VX	VXR-7000UD	\$ 1,650.00

FCC INFORMATION: K66VXR-7000VC (134-174 MHz) / K66-VXR7000U (400-480 MHz)

**VXR-9000 Series**  
**Repeaters/Base Stations**  
 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog



**VXR-9000**

**Repeater Features:**

- 32 Channels
- 47 CTCSS / 109 DCS Encode / Decode
- 6 Dual Functioning Programmable Front Panel Keys
- 50W or 25W Power Output
- 100W Power Amplifier Unit (Optional)
- PLL Step Sizes: 2.5/5.0/6.25 kHz
- Low Level and High Level Encryption Options
- CTCSS Reverse Burst with Programmable Length
- 3.15" Square Cooling Fan with "Malfunction" Sensor Output
- Multi-Tone Decode
- 5-Step Command Sequence for Startup, Power Source: Main to Sub, and Sub to Main
- CW ID and CW Messages Selected by Trigger
- Coaxial relay Drivers for Single Antenna Operation; Also TX Attenuator
- Programmed Message Banks for Maintenance Logs or Any Other Free Text
- Repeater Occupation Settings to Hold the Last Tone Code (Preset Timer)
- Built In Audio Voice Companding Unit
- Channel Scanning With Priority Channel
- Automatic DC Backup Switching with Alert
- Optional Built In Power Supply Unit FP-31
- D-sub 25 pin accessory connector
- EIA rack mount size

**Recommended Accessories:**

- Microphone
- MD-12A8J Desktop Microphone
- MH-67A8J Standard Microphone
- Power Supply
- FP-31 Internal Power Supply\*
- \*Required for all 50W models
- FP-1030A External Power Supply

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>VXR-9000 Repeater Models</b>						
134-160 MHz	VHF	50W	32	AC044N004-VX	VXR-9000VA	\$ 1,395.00
148-174 MHz	VHF	50W	32	AC044N006-VX	VXR-9000VC	\$ 1,395.00
400-430 MHz	UHF	50W	32	AC044U006-VX	VXR-9000UA	\$ 1,495.00
450-490 MHz	UHF	50W	32	AC044U008-VX	VXR-9000UD	\$ 1,495.00

FCC INFORMATION: K6610443240 (134-174 MHz) / K6610444140 (403-430 MHz) / K66VXR-9000U (450-490 MHz)

Date 1/19/16  
MSRP

## VXR-9000 Series Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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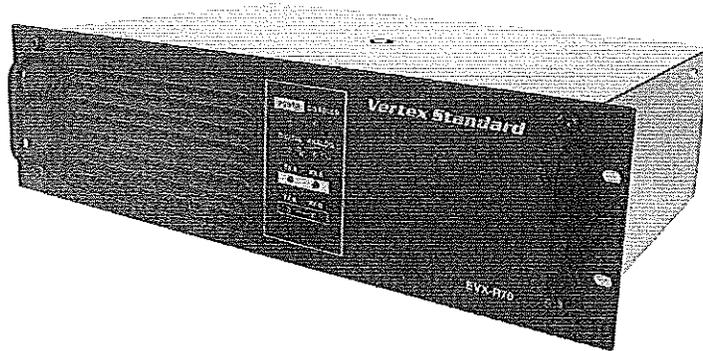
Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Programming Option:

QA02725AB	ADD: 100W POWER AMPLIFIER for VXR-9000VC	\$ 1,893.00
QA02725AA	ADD: 100W POWER AMPLIFIER for VXR-9000UD	\$ 1,943.00

## EVX-R70 Series Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 6.25 kHz<sup>2</sup>, Analog/Digital



### EVX-R70

**Repeater Features:**

- Digital or Analog Operation
- Dynamic Mixed Mode
- DMR Standard TDMA 6.25 kHz Efficient
- 26W - 45W Power Output
- 136-174 MHz VHF, 403-470 MHz UHF, 450-512 MHz UHF
- 16 Channels
- EIA Rack Mount Size
- AMBE+2™ Digital Vocoder
- 26 Pin Accessory Connector
- Multicolored LED Status Indicator

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
<b>EVX-R70 Repeater Models</b>						
136-174	VHF	45W	16	AC103N002-VX	EVX-R70-D0-45	\$ 2,542.00
403-470	UHF	40W	16	AC103U004-VX	EVX-R70-G6-40	\$ 2,542.00
450-512	UHF	40W	16	AC103U006-VX	EVX-R70-G7-40	\$ 2,542.00

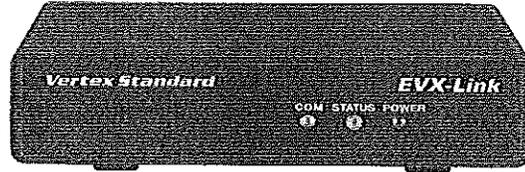
FCC INFORMATION: AX11033040 (136-174 MHz) / AX11034640 (403-470 MHz) / AX11304740 (450-512 MHz)

# EVX-Link

## Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

EVX-Link include:  
EVX-Link to EVX Mobile Interface Cable  
Standard 3 Year Warranty



EVX-Link

EVX-Link Features

- Connect up to 30 DMR Sites
- No Repeater Requirements
- Compact and Discreet
- Simple Installation
- Compatible with all frequency bands and DMR manufactured products
- Versatile Coverage

EVX-Link DMR Compatible Features

- All Call, Group Call, Private Call
- PTT ID
- Call Alert
- Remote Monitor
- Text Messaging
- Emergency Calls
- Stun/Revive
- Site Search Supported

PRODUCT DETAILS		MSRP
<u>EVX-Link</u>		
AAL90X001	EVX-Link (mobile and power supply sold separately)	\$ 800.00

## Vertex Standard Repeaters/Base Station Accessories

Date 1/19/16

MSRP

BSC-5000	VXR-1000	VXR-7000	VXR-9000	EVX-R70	Model Number	Description	MSRP
<b>Duplexers</b>							
	X	X			XUFIP0001	VXD-60UD 50 Watt Internal Duplexer, UHF 440-470 MHz *Note: Compatible with the VXR-9000 however it can not be installed and must be used separately	\$ 410.00
	X	X			XUFIP0002	VXD-60VC 50 Watt Internal Duplexer, VHF 148-160 MHz *Note: Compatible with the VXR-9000 however it can not be installed and must be used separately	\$ 410.00
<b>Microphones</b>							
X					AAB02X008	MH-53A8J HEAVY DUTY MICROPHONE	\$ 150.00
X	X	X			AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
X	X	X			AAE60X102	MH-67A8J Standard Microphone	\$ 40.00
<b>Misc.</b>							
			X		AAC95X001	FIF-9 The FIF-9 is an interface unit which allows remote control of the VXR-9000 repeater via a 4-line or 8-line cable	\$ 145.00
			X		AAH39X001	WMB-1 Wall mount kit	\$ 148.33
	X				AAA69X001	MR-3 4U HIGH 19 INCH WIDE MOUNT KIT	\$ 220.00
			X		AAH36X001	CT-149 Mobile Rear Accy Connector Universal Cable	\$ 30.00
			X		AAH40X001	E-DC-29 Battery backup cable	\$ 66.67
<b>Power Supply</b>							
		X			AAC96X001	FP-31 POWER SUPPLY Internal power supply for the VXR-9000 rack mount	\$ 298.00
<b>Programming and Installation</b>							
	X	X			AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00
	X				AAA21X001	CT-68 Duplexer Installation Kit	\$ 63.00
			X		AAH43X001	CT-151 Programming cable rear accessory connector	\$ 47.00
	X	X			AAJ06X001	FRB-6 Tuning Interface (Requires Connection Cable)	\$ 340.00
	X	X			AAJ07X001	CT-159 Connection Cable (Requires FRB-6)	\$ 58.34
	X	X			AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional	\$ 150.00
X	X	X			A06420002	VX VPL-1 Programming cable from PC. Check specific models for additional cable	\$ 87.00
<b>Remote Cable</b>							
X					AAD60X001	CT-103 Cable for connection to tone panel	\$ 99.00
<b>RF Power Amplifiers</b>							
		X			AAE21U001	VPA-9000UD Power amplifier kit, UHF 450-490MHz (FOR 100 WATT OPTION	\$ 1,890.00
		X			AAE21N001	VPA-9000VC Power amplifier kit, VHF 148-174MHz (FOR 100 WATT OPTION	\$ 1,840.00
<b>Signaling</b>							
		X			A12760001	FVP-25 Encryption Unit (Band Inversion Type) and DTMF Paging. (requires FIF-7	\$ 60.00
		X			AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the VX-	\$ 346.00
<b>Speaker</b>							
X					A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X					AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00

Vertex Standard Legacy Model  
 Accessories

VX-300	VX-160	VX-180	VX-210A	VX-410	VX-420	VX-420A	VX-500	VX-510	VX-520LD	VX-535	VX-600	VX-800	VX-900	VX-2000	VX-2500	VX-3200	VX-4000	VX-4100	VX-4200	VX-1210	VXD-720	VXD-7200	Model Number	Description	MSRP	
																							<b>Alignment/Service Related</b>			
X	X	X	X	X	X						X	X	X										XURF10001	CN-3 SMA to BNC Adaptor	\$ 16.80	
																							AAF26X002	CT-124B Firmware Cable. Requires FIF-12A.	\$ 60.00	
																							<b>Alkaline Battery Cases</b>			
			X	X	X																		A13520003	FBA-25A Alkaline Battery Tray	\$ 20.00	
							X	X	X														XUZZ20139	FBA-19 Alkaline Battery Case	\$ 39.00	
																							<b>Antennas</b>			
																							AAB35X001	ATU-1210 Internal antenna tuner for the VX-1210 mapack	\$ 240.00	
																							AAB51X001	FHA-27 10ft. Folding whip HF antenna. Requires GN-1210 adaptor	\$ 360.00	
																							AAB49X001	GN-1210 Goose neck antenna adaptor for the FHA-27	\$ 180.00	
																							A00590003	YA-30 Broadband T2FD Dipole Base Station Antenna	\$ 389.00	
																							AA04X001	YHA-51 5ft. HF whip antenna	\$ 140.00	
																							AAH26X001	ATU-14A Antenna	\$ 14.00	
																							AAH26X002	ATU-14D Antenna	\$ 14.00	
																							AAH25X001	ATV-15C Antenna	\$ 14.00	
			X								X	X	X										XUCE10010	ATU-6A 400-430 MHz / Brown / 6.5"	\$ 14.00	
											X	X	X										XUCE10011	ATU-6AS Antenna 410-430 MHz / 3.5"	\$ 13.00	
X	X	X	X	X	X						X	X	X										XUCE10012	ATU-6D 450-485 MHz / Red / 6" / VX-10/160/180/210/400/600/800/900	\$ 14.00	
																							XUCE10013	ATU-6DS Antenna 450-485 MHz / 3.5"	\$ 14.00	
			X	X	X	X					X	X	X										XUCE10033	ATV-10A High Gain Antenna, 145-165MHz (Red) / 10.5"	\$ 16.00	
			X	X	X	X					X	X	X										XUCE10034	ATV-10B High Gain Antenna, 150-160MHz (Brn) / 10.5"	\$ 16.00	
			X	X	X	X					X	X	X										XUCE10035	ATV-10C High Gain Antenna, 155-165MHz (Blk) / 10.5"	\$ 16.00	
			X	X	X	X					X	X	X										XUCE10036	ATV-10E High Gain Antenna, 165-175MHz (Org) / 10.5"	\$ 16.00	
			X	X	X						X	X											XUCE10019	ATV-6A Antenna 134-151 MHz / 4"	\$ 13.00	
			X	X	X	X					X	X	X										XUCE10020	ATV-6B Antenna 150-163 MHz / 3.5"	\$ 15.00	
			X	X	X	X					X	X	X										XUCE10021	ATV-6C Antenna 161-174 MHz / 3.5"	\$ 13.00	
			X	X	X	X					X	X	X										XUCE10022	ATV-6XL Unbinned VHF Antenna 7"	\$ 14.00	
			X	X	X	X					X	X	X										XUCE10023	ATV-8A Antenna 134-150 MHz / Sable / 6"	\$ 14.00	
			X	X	X	X					X	X	X										XUCE10024	ATV-8B Antenna 150-163 MHz / Sable / 6"	\$ 14.00	
			X	X	X	X					X	X	X										XUCE10025	ATV-8C Antenna 162-174 MHz / Sable / 6"	\$ 14.00	
																							<b>Batteries</b>			
			X	X	X	X																	A12730003	FNB-V57AIS - 7.2V 1250 mAh Intrinsically Safe NiMH Battery	\$ 85.00	
			X	X	X	X																	AAJ60X001	FNB-V126LI-UNI 2300 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 50.00	
			X	X	X																		AAF06X001	FNB-V94 1800 mAh NiMH Battery	\$ 35.00	
																							AAH23X001	FNB-V116 1300 mAh NiMH Battery	\$ 66.67	
																							AAH85X001	FNB-V117LI 2200 MAH Li-Ion Battery	\$ 116.67	
							X																A13850011	FNB-29BIS 7.2V 2450MAH NiMH BATTERY	\$ 100.00	
																							<b>Belt Clips</b>			
			X	X	X	X					X	X	X										AAE04X001	BELT CLIP FOR VX-600/800/900	\$ 8.00	
			X	X	X	X					X	X	X										AAE65X003	CLIP-17C Belt Clip Lock and Release	\$ 15.00	
																							AAH69X001	CLIP-21 Belt Clip	\$ 10.00	
																							<b>Cases</b>			
			X																				XUBEE0038	LCC-419 Leather Case with belt loop	\$ 32.00	
			X																				XUBEE0039	LCC-410S Leather Case with Swivel	\$ 42.00	
				X	X																		XUBEE0040	LCC-420 Leather Case with belt loop	\$ 32.00	
				X	X																		XUBEE0041	LCC-420S Leather Case with Swivel	\$ 42.00	
																							<b>Charger</b>			
																							AAA03X001	CD-17 Rapid charger for the VX-1210 HF Mapack transceiver. Requires	\$ 150.00	
																							AAI27X001	VAC-6030B 120V Multi Unit Charger	\$ 591.67	
																							XUAAJ22X00101	VAC-40B Single Unit Charger	\$ 80.00	
																							XUAAJ22X00102	VAC-40C Single Unit Charger	\$ 80.00	
				X	X	X																	XUAA058X10101	VAC-20B 120 VAC 3-Hour Desktop Charger (Not recommended for use with LiIon Batteries)	\$ 38.00	
				X	X	X																	XUAA058X10102	VAC-20C 230 VAC 3-Hour Desktop Charger (Not recommended for use with LiIon Batteries)	\$ 38.00	
	X	X		X	X	X																	XUAAJ72X001	VAC-UNI-B 120V US Universal Charger (For use with -UNI batteries)	\$ 36.00	
	X	X		X	X	X																	XUAAJ72X002	VAC-UNI-C 220V EU Universal Charger (For use with -UNI batteries)	\$ 36.00	
			X	X	X																		XUAA078X00101	VAC-6020B (VAC-6020/AC cable) 6 Unit Gain Charger	\$ 450.00	
			X	X	X																		XUAA078X00102	VAC-6020C (220V 6 Unit Charger)	\$ 450.00	
			X	X	X																		XUAA023X00106	VAC-6800B 6 UNIT Multi-Rapid Charger, 120VAC	\$ 575.00	
			X	X	X																		XUAA023X00109	VAC-6800C 6 UNIT Multi-Rapid Charger, 240VAC	\$ 575.00	
			X	X	X																		XUAA023X00101	VAC-6810B 120 VAC 6 UNIT Multi-Rapid Charger	\$ 575.00	
			X	X	X																		XUAA033X00101	VAC-801B 120 VAC 1-Hour Desktop Charger	\$ 60.00	
			X	X	X																		XUAA033X00102	VAC-801C 230VAC 1-Hour Desktop Charger	\$ 60.00	
			X	X	X																		XUAA084X00501	VAC-810B 120 VAC 1.5 Hour Desktop Charger required for the FNB-V67LI High Capacity Battery	\$ 68.33	
			X	X	X																		XUAA084X00502	VAC-810C 230 VAC 1.5-Hour Desktop Charger required for the FNB-V67LI High Capacity Battery	\$ 68.33	
	X	X	X	X	X	X		X	X	X	X	X											AAA72X001	VCM-1 Vehicular DC Charger Mounting Adaptor. [Requires a charging base: VAC-801 (CD-45), VAC-810 etc.]	\$ 60.00	
			X	X	X																		XUAAK44X001	VAC-6058 120V MUC For UNI LIION Battery	\$ 450.00	
			X	X	X																		XUAAK44X002	VAC-6058 220V EU MUC For UNI LIION Battery	\$ 450.00	
																							<b>Control Head</b>			
																							AA037X001	CNT-5000 Compact motorcycle control head for VX-4000 & VX-5500 mobiles. Includes CNT-5000 control head, mounting bracket (RA0555300), screw kit (U9900163 qty 2), holder (RA0555400 qty 2) & connection cable (T9207073). External microphone (MH-53ABA) & external speaker (MLS-100 or MLS-200) sold separately	\$ 499.00	
																							<b>Cover Plate</b>			
																							AAB27X012	RMK-4000 B Cover plate for the RF Deck in Remote Applications	\$ 65.00	
																							AAB27X011	RMK-4000 H Cover plate for the Control Head (Includes mounting bracket and hardware)	\$ 105.00	
																							AA058X001	RMK-5000B Dedicated Motorcycle Control Head	\$ 179.00	
																							<b>DC Cables</b>			
																							AAE08X001	E-DC 22 30 ft DC cable	\$ 60.00	
																							XUV1N0001	CT-96PS Ignition Sense Cable	\$ 18.33	
																							<b>DC Noise Filter</b>			
																							AA09120001	LF-1 Plug-In Line Filter	\$ 35.00	

### Vertex Standard Legacy Model Accessories

LMR Portable - Page 68  
Date 1/19/16  
MSRP

VX-130	VX-160	VX-180	VX-210A	VX-410	VX-420	VX-490A	VX-500	VX-510	VX-520UD	VX-530	VX-600	VX-900	VX-900	VX-2000	VX-2500	VX-3500	VX-4000	VX-4100	VX-4200	VX-1210	VXD-720	VXD-7200	Model Number	Description	MSRP	
																							<b>Headsets and Surveillance</b>			
																							XUOT0001	VH-110 Heavy Duty Headset	\$ 540.00	
																							AAA93X002	VH-110S Over-Head, Heavy Duty Headset	\$ 540.00	
X	X	X	X	X	X	X																	AAG48X001	VH-115S Lightweight Headset w/ Boom	\$ 55.00	
																							XUOT0002	VH-120 3 Wire	\$ 185.00	
																							AAA92X002	VH-120S Earpiece Mic w/ Palm PTT	\$ 220.00	
																							AAA91X003	VH-130S Earpiece Mic w/ Palm PTT	\$ 150.00	
X	X	X	X	X	X	X																	AAG49X001	VH-215S Lightweight Padded Headset, Single Speaker	\$ 121.00	
																							<b>Microphone</b>			
																							AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00	
																							AAE60X102	MH-67A8J Standard Microphone	\$ 40.00	
																							AAG22X101	MH-75A8J DTMF Microphone	\$ 65.00	
																							AAB02X004	MH-53A7A Noise-Canceling Microphone	\$ 103.00	
																							AAB02X007	MH-53A8A Heavy Duty Weatherproof Noise Canceling DTMF Microphone (for use with CNT-5000)	\$ 149.00	
																							AAB02X008	MH-53C7A Heavy Duty Microphone	\$ 105.00	
																							<b>Misc</b>			
																							A08420002	CN-2 SMA TO BNC Adapter	\$ 42.00	
																							AAH37X001	CT-149 Mobile Rear Accty. Connectory Universal Cable	\$ 30.00	
																							AAH29X001	DTF-1 desktop tray	\$ 49.68	
																							<b>Mounting Brackets</b>			
																							AA826X001	MMB-75 Mobile Mounting Bracket	\$ 25.00	
																							AA872X001	MMB-76 Locking Mobile Mounting Bracket	\$ 75.00	
																							AAD48X001	MMB-85 Quick Release Mobile Bracket for VX-4100/4200	\$ 75.00	
																							AAD62X001	MMB-88 This is a mounting bracket, which is a base plate for the CNT-5000 and MLS-200. The MMB-88 mounts to a motorcycle. The CNT-5000 and MLS-200 then mount to the MMB-88, side by side.	\$ 79.00	
																							AAH31X001	MMB-93 Bracket (Low Profile)	\$ 19.17	
																							AAH32X001	MMB-94 Bracket (High Profile)	\$ 25.00	
																							AAH33X001	MMB-95 Bracket (Key Lock)	\$ 141.67	
																							AAH34X001	MMB-96 Bracket (in dash (DIN))	\$ 35.00	
																							<b>Power Supply</b>			
																							AAH30X001	E-DC-26 Power supply cable	\$ 25.00	
																							AAH37X001	E-DC-27 Power cable	\$ 21.67	
																							AAH38X001	E-DC-28 Power cable	\$ 43.33	
																							<b>Programming and Installation</b>			
																							AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00	
																							79101411	CT-4 Radio Cloning Cable	\$ 27.62	
																							AAD67X001	CT-105 FIF-12 interface cable	\$ 60.00	
																							AAA83X001	SVC-1200 Service Kit for the VX-1210 (programming and alignment)	\$ 230.00	
																							AAC92X001	CT-92 FIF-8 cable to the Mobites. Used for updating firmware using the	\$ 23.00	
																							AAA26X001	CT-72 Cloning Cable (Set-to-Set Clone)	\$ 68.00	
																							AAD68X001	CT-106 - FIF-12 to VX-160/180/410/420/450 Cable	\$ 40.00	
X	X	X	X	X	X	X																	XURT50008	CT-27A Radio to radio cloning cable	\$ 14.00	
X	X	X	X	X	X	X																	AAH85X001	CT-165 VXD Portable Programming cable	\$ 45.00	
																							AAH42X001	CT-150 Programming cable rear accessory connector	\$ 45.00	
																							AAH43X001	CT-161 Programming cable rear accessory connector	\$ 47.00	
																							AAH84X001	CT-154 VXD Mobile Front Programming Cable	\$ 45.00	
																							AAC54X001	CT-88 The CT-88 cable is used in conjunction with the FIF-8 box to mate	\$ 55.00	
																							AAJ06X001	FRB-6 Tuning Interface (Requires Connection Cable)	\$ 340.00	
																							AAJ08X001	CT-160 Connection Cable 4-Pin Mic Jack (Use with FRB-6)	\$ 55.00	
																							AAC49X002	FIF-7A Interface Board	\$ 37.00	
																							A06420002	VX VPL-1 Programming cable from PC. Check specific models for additional cable pigtails	\$ 87.00	
																							AAJ23X001	FIF-12A USB interface for PC programming. Check specific models for additional cable pigtails. Pigtails not included.	\$ 150.00	
																							<b>Remote Cable</b>			
																							AAC04X001	CT-81 Remote Cable for RMK-4000 series (20 ft) (RF Deck to Control Head)	\$ 90.00	
																							AAC05X001	CT-82 Remote Cable for RMK-4000 series (8 ft) (RF Deck to Control Head)	\$ 80.00	
																							AAC06X001	CT-83 Remote Cable for RMK-4000 series (2 ft) (RF Deck to RF Deck)	\$ 70.00	
																							AAD07X001	CT-93 Remote Cable for RMK-4000 series (30 ft) (RF Deck to Control Head)	\$ 96.34	
																							<b>Signaling</b>			
																							AAD51X001	DVS-5 Digital Voice Storage Board (120 sec. max.)	\$ 50.00	
																							A12760001	FVP-25 Encryption Unit (Band Inversion Type) and DTMF Paging. (requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000)	\$ 60.00	
																							AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000. Requires VX MPI for programming	\$ 346.00	
																							XUCMR0002	VMDE-200 Board for MDC1200 Encode/Decode	\$ 127.79	
																							XUCMR0003	VME-100 Board for MDC1200 Digital ANI	\$ 69.31	
																							<b>Speaker</b>			
																							A09280003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00	
																							AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00	
																							<b>Speaker/Microphones</b>			
																							AA75X003	MH-50C7A Microphone with toggle switch	\$ 94.00	
X	X	X	X	X	X	X																	AAF52X001	MH-360S Compact Speaker Microphone for VX-210A, VX-160, VX-180 & VX-450. Very similar to the MH-34D4B.	\$ 21.00	
X	X	X	X	X	X	X																	AAF53X001	MH-450S Medium-Duty Speaker Microphone w/ Lapel Clip and 3.5mm Ear Phone Jack	\$ 26.67	
X	X	X	X	X	X	X																	A13960007	MH-45B4B Noise Canceling Speaker Microphone	\$ 82.00	

STATE OF MICHIGAN  
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
 PROCUREMENT  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

**CHANGE NOTICE NO. 4**  
 to  
**CONTRACT NO. 071B0200125**  
 between  
**THE STATE OF MICHIGAN**  
 and

NAME & ADDRESS OF CONTRACTOR:	PRIMARY CONTACT	EMAIL
Vertex Standard USA, Inc. 1301 East Algonquin Road Schaumburg, IL 60196	Danny McGee	<a href="mailto:Daniel.mcgee@vertexstandard.com">Daniel.mcgee@vertexstandard.com</a>
	TELEPHONE	CONTRACTOR #, MAIL CODE
	(815) 540-0400	

STATE CONTACTS	AGENCY	NAME	PHONE	EMAIL
CONTRACT COMPLIANCE INSPECTOR	DTMB	Toney Casey	517-333-6618	caseyt1@michigan.gov
BUYER	DTMB	Mike Breen	517-284-7002	<a href="mailto:breenm@michigan.gov">breenm@michigan.gov</a>

CONTRACT SUMMARY:			
DESCRIPTION: <b>Two Way Radios - Statewide</b>			
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
March 28, 2011	January 19, 2013	Five (1) One Year	January 19, 2015
PAYMENT TERMS	F.O.B	SHIPPED	SHIPPED FROM
N/A	N/A	N/A	N/A
ALTERNATE PAYMENT OPTIONS:			AVAILABLE TO MIDEAL PARTICIPANTS
<input type="checkbox"/> P-card <input type="checkbox"/> Direct Voucher (DV) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
MINIMUM DELIVERY REQUIREMENTS:			
N/A			

DESCRIPTION OF CHANGE NOTICE:				
EXTEND CONTRACT EXPIRATION DATE	EXERCISE CONTRACT OPTION YEAR(S)	EXTENSION BEYOND CONTRACT OPTION YEARS	LENGTH OF OPTION/EXTENSION	EXPIRATION DATE AFTER CHANGE
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One (1) Year	1/19/2016
VALUE/COST OF CHANGE NOTICE:		ESTIMATED REVISED AGGREGATE CONTRACT VALUE:		
\$0.00		\$1,000,000.00		

**Effective November 10, 2014, this contract hereby exercises a contract option year and is extended to January 19, 2016 for continued purchase of two-way radios, parts and equipment. All other terms, conditions and pricing remain unchanged. Per vendor and agency agreement, DTMB Procurement approval.**

STATE OF MICHIGAN  
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
 PROCUREMENT  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

**CHANGE NOTICE NO. 3**  
 to  
**CONTRACT NO. 071B0200125**  
 between  
**THE STATE OF MICHIGAN**  
 and

NAME & ADDRESS OF CONTRACTOR:	PRIMARY CONTACT	EMAIL
Vertex Standard USA, Inc. 1301 East Algonquin Road Schaumburg, IL 60196	Joe Tee	<a href="mailto:Joseph.tee@vertexstandard.com">Joseph.tee@vertexstandard.com</a>
	TELEPHONE (847) 812-0333	CONTRACTOR #, MAIL CODE

STATE CONTACTS	AGENCY	NAME	PHONE	EMAIL
CONTRACT COMPLIANCE INSPECTOR	DTMB	Toney Casey	517-333-6618	caseyt1@michigan.gov
BUYER	DTMB	Mike Breen	517-284-7002	<a href="mailto:breenm@michigan.gov">breenm@michigan.gov</a>

CONTRACT SUMMARY:			
DESCRIPTION: <b>Two Way Radios - Statewide</b>			
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
March 28, 2011	January 19, 2013	Five (1) One Year	January 19, 2014
PAYMENT TERMS	F.O.B	SHIPPED	SHIPPED FROM
N/A	N/A	N/A	N/A
ALTERNATE PAYMENT OPTIONS:			AVAILABLE TO MiDEAL PARTICIPANTS
<input type="checkbox"/> P-card <input type="checkbox"/> Direct Voucher (DV) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
MINIMUM DELIVERY REQUIREMENTS:			
N/A			

DESCRIPTION OF CHANGE NOTICE:				
EXTEND CONTRACT EXPIRATION DATE	EXERCISE CONTRACT OPTION YEAR(S)	EXTENSION BEYOND CONTRACT OPTION YEARS	LENGTH OF OPTION/EXTENSION	EXPIRATION DATE AFTER CHANGE
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One (1) Year	1/19/2015
VALUE/COST OF CHANGE NOTICE:		ESTIMATED REVISED AGGREGATE CONTRACT VALUE:		
\$500,000.00		\$1,000,000.00		
<b>Effective February 25, 2014, this contract hereby exercises a contract option year and is extended to January 19, 2015. Contract is also increased by \$500,000.00. Please note that the buyer has been changed to Mike Breen. All other terms, conditions and pricing remain unchanged. Per vendor and agency agreement, DTMB Procurement approval and the approval of the State Administrative Board on February 25, 2014.</b>				

STATE OF MICHIGAN  
 DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET  
 PROCUREMENT  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

March 4, 2013

**CHANGE NOTICE NO. 2**  
 to  
**CONTRACT NO. 071B0200125**  
 between  
**THE STATE OF MICHIGAN**  
 and

NAME & ADDRESS OF CONTRACTOR:	PRIMARY CONTACT	EMAIL
Vertex Standard USA, Inc. 10900 Walker Street Cypress, CA 90630	Joe Tee	j.tee@vxstdusa.com
	TELEPHONE	CONTRACTOR #, MAIL CODE
	(800) 752-0986	

STATE CONTACTS	AGENCY	NAME	PHONE	EMAIL
CONTRACT COMPLIANCE INSPECTOR	DTMB	Toney Casey	517-333-6618	caseyt1@michigan.gov
BUYER	DTMB	Steve Motz	517-241-3215	motzs@michigan.gov

CONTRACT SUMMARY:			
DESCRIPTION: <b>Two Way Radios - Statewide</b>			
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
March 28, 2011	January 19, 2013	Five (1) One Year	January 19, 2013
PAYMENT TERMS	F.O.B	SHIPPED	SHIPPED FROM
N/A	N/A	N/A	N/A
ALTERNATE PAYMENT OPTIONS:			AVAILABLE TO MIDEAL PARTICIPANTS
<input type="checkbox"/> P-card <input type="checkbox"/> Direct Voucher (DV) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
MINIMUM DELIVERY REQUIREMENTS:			
N/A			

DESCRIPTION OF CHANGE NOTICE:				
EXTEND CONTRACT EXPIRATION DATE	EXERCISE CONTRACT OPTION YEAR(S)	EXTENSION BEYOND CONTRACT OPTION YEARS	LENGTH OF OPTION/EXTENSION	EXPIRATION DATE AFTER CHANGE
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One (1) Year	1/19/2014
VALUE/COST OF CHANGE NOTICE:			ESTIMATED REVISED AGGREGATE CONTRACT VALUE:	
\$0			\$500,000	
This Contract is hereby extended for one (1) year, through use of a contract option.				
All other terms, conditions and pricing remain unchanged.				

**STATE OF MICHIGAN**  
**DEPARTMENT OF TECHNOLOGY MANAGEMENT AND BUDGET**    December 15, 2011  
**PROCUREMENT**  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

**CHANGE NOTICE NO. 1**  
**TO**  
**CONTRACT NO. 071B0200125**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF CONTRACTOR <b>Vertex Standard USA, Inc.</b> <b>10900 Walker Street</b> <b>Cypress, CA 90630</b> <b>Attention: Joe Tee</b>  Email: <a href="mailto:j.tee@vxstdusa.com">j.tee@vxstdusa.com</a>	TELEPHONE Joe Tee <b>(847) 576-2643</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 241-3215 <b>Steve Motz</b>
Contract Compliance Inspector: Tom Thompson <b>2-way Radios</b>	
CONTRACT PERIOD: From: <b>March 28, 2011</b> To: <b>January 19, 2013</b>	
TERMS <b>N/A</b>	SHIPMENT <b>N/A</b>
F.O.B. <b>N/A</b>	SHIPPED FROM <b>N/A</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	
MISCELLANEOUS INFORMATION:	

**THIS CONTRACT IS HEREBY EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE(S):**

Effective immediately the attached Subcontractor Dealer profile replaces the previous list of authorized dealers provided in Section 1.031 of the Contract. All other terms, conditions, pricing and specifications remain unchanged.

**AUTHORITY/REASON(S):**

Per Contractor request and DTMB approval.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS:        \$500,000.00**

**STATE OF MICHIGAN**  
**DEPARTMENT OF TECHNOLOGY MANAGEMENT AND BUDGET**  
**PURCHASING OPERATIONS**  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

March 30, 2011

**NOTICE**  
**OF**  
**CONTRACT NO. 071B0200125**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF CONTRACTOR <b>Vertex Standard USA, Inc.</b> <b>10900 Walker Street</b> <b>Cypress, CA 90630</b> <b>Attention: Joe Tee</b>  Email: <a href="mailto:j.tee@vxstdusa.com">j.tee@vxstdusa.com</a>	TELEPHONE Joe Tee <b>(847) 576-2643</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 241-3215 <b>Steve Motz</b>
Contract Compliance Inspector: Tom Thompson <b>2-way Radios</b>	
CONTRACT PERIOD: From: <b>March 28, 2011</b> To: <b>January 19, 2013</b>	
TERMS <p style="text-align: center;"><b>N/A</b></p>	SHIPMENT <p style="text-align: center;"><b>N/A</b></p>
F.O.B. <p style="text-align: center;"><b>N/A</b></p>	SHIPPED FROM <p style="text-align: center;"><b>N/A</b></p>
MINIMUM DELIVERY REQUIREMENTS <p style="text-align: center;"><b>N/A</b></p>	
MISCELLANEOUS INFORMATION:	

**THIS CONTRACT IS HEREBY EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**Estimated Contract Value: \$500,000.00**

**STATE OF MICHIGAN**  
**DEPARTMENT OF TECHNOLOGY MANAGEMENT AND BUDGET**  
**PURCHASING OPERATIONS**  
**P.O. BOX 30026, LANSING, MI 48909**  
 OR  
**530 W. ALLEGAN, LANSING, MI 48933**

**CONTRACT NO. 071B0200125**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF CONTRACTOR <b>Vertex Standard USA, Inc.</b> <b>10900 Walker Street</b> <b>Cypress, CA 90630</b> <b>Attention: Joe Tee</b>  Email: <a href="mailto:j.tee@vxstdusa.com">j.tee@vxstdusa.com</a>	TELEPHONE Joe Tee <b>(847) 576-2643</b> VENDOR NUMBER/MAIL CODE  BUYER/CA (517) 241-3215 <b>Steve Motz</b>
Contract Compliance Inspector: Tom Thompson <p style="text-align: center;"><b>2-way Radios</b></p>	
CONTRACT PERIOD: From: <b>March 28, 2010</b> To: <b>January 19, 2013</b>	
TERMS <p style="text-align: center;"><b>N/A</b></p>	SHIPMENT <p style="text-align: center;"><b>N/A</b></p>
F.O.B. <p style="text-align: center;"><b>N/A</b></p>	SHIPPED FROM <p style="text-align: center;"><b>N/A</b></p>
MINIMUM DELIVERY REQUIREMENTS <p style="text-align: center;"><b>N/A</b></p>	
MISCELLANEOUS INFORMATION:  <p style="text-align: center;"><b>THIS CONTRACT IS HEREBY EXTENDED TO LOCAL UNITS OF GOVERNMENT.</b></p> <p><b>Estimated Contract Value: \$500,000.00</b></p>	

**THIS IS NOT AN ORDER: The terms and conditions of this contract are enclosed.**

<p><b>FOR THE CONTRACTOR:</b></p> <p style="text-align: center;"><b>Vertex Standard USA, Inc.</b></p> <hr/> <p style="text-align: center;">Firm Name</p> <hr/> <p style="text-align: center;">Authorized Agent Signature</p> <hr/> <p style="text-align: center;">Authorized Agent (Print or Type)</p> <hr/> <p style="text-align: center;">Date</p>	<p><b>FOR THE STATE:</b></p> <hr/> <p style="text-align: center;">Signature</p> <p style="text-align: center;"><b>Steve Motz, IT Buyer</b></p> <hr/> <p style="text-align: center;">Name/Title</p> <p style="text-align: center;"><b>IT Division, Purchasing Operations</b></p> <hr/> <p style="text-align: center;">Division</p> <hr/> <p style="text-align: center;">Date</p>
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## DEFINITIONS

**“Days”** means calendar days unless otherwise specified.

**“24x7x365”** means 24 hours a day, seven days a week, and 365 days a year (including the 366th day in a leap year).

**“Additional Service”** means any Services/Deliverables within the scope of the Contract, but not specifically provided under any Statement of Work, that once added will result in the need to provide the Contractor with additional consideration.

**“Audit Period”** has the meaning given in Section 2.093.

**“Business Day,”** whether capitalized or not, shall mean any day other than a Saturday, Sunday or State-recognized legal holiday (as identified in the Collective Bargaining Agreement for State employees) from 8:00am EST through 5:00pm EST unless otherwise stated.

**“Blanket Purchase Order”** is an alternate term for Contract and is used in the States computer system.

**“Business Critical”** means any function identified in any Statement of Work as Business Critical.

**“Chronic Failure”** is defined in any applicable Service Level Agreements.

**“Deleted – Not Applicable”** means that section is not applicable or included in this RFP. This is used as a placeholder to maintain consistent numbering.

**“Deliverable”** means physical goods and/or commodities as required or identified by a Statement of Work

**“DMB”** means the Michigan Department of Management and Budget

**“Environmentally preferable products”** means a product or service that has a lesser or reduced effect on human health and the environment when compared with competing products or services that serve the same purpose. Such products or services may include, but are not limited to, those which contain recycled content, minimize waste, conserve energy or water, and reduce the amount of toxics either disposed of or consumed.

**“Excusable Failure”** has the meaning given in Section 2.214.

**“Equipment”** means the equipment that the State purchases from Vertex Standard USA, Inc. under this Contract.

**“Hazardous material”** means any material defined as hazardous under the latest version of federal Emergency Planning and Community Right-to-Know Act of 1986 (including revisions adopted during the term of the Contract).

**“Incident”** means any interruption in Services.

**“Key Personnel”** means any Personnel designated in Section 1.031 as Key Personnel.

**“MDIT”** means the Michigan Department of Information Technology

**“New Work”** means any Services/Deliverables outside the scope of the Contract and not specifically provided under any Statement of Work, that once added will result in the need to provide the Contractor with additional consideration.

**“Non-Vertex Software”** means Software that another party owns.

**“Open Source Software”** (also called “freeware” or “shareware”) means software that has its underlying source code freely available to evaluate, copy, and modify.

**“Post-Consumer Waste”** means any product generated by a business or consumer which has served its intended end use, and which has been separated or diverted from solid waste for the purpose of recycling into a usable commodity or product, and which does not include post-industrial waste.

**“Post-Industrial Waste”** means industrial by-products which would otherwise go to disposal and wastes generated after completion of a manufacturing process, but does not include internally generated scrap commonly returned to industrial or manufacturing processes.

**“Proprietary Rights”** means the patents, patent applications, inventions, copyrights, trade secrets, trademarks, trade names, mask works, know-how, and other intellectual property rights in and to the Equipment and Software, including those created or produced by Vertex Standard USA, Inc. under this Agreement and any corrections, bug

fixes, enhancements, updates or modifications to or derivative works from the Software whether made by Vertex or another party.

“Recycling” means the series of activities by which materials that are no longer useful to the generator are collected, sorted, processed, and converted into raw materials and used in the production of new products. This definition excludes the use of these materials as a fuel substitute or for energy production.

“Reuse” means using a product or component of municipal solid waste in its original form more than once.

“RFP” means a Request for Proposal designed to solicit proposals for services.

“Services” means any function performed for the benefit of the State.

“Software” means the Vertex Software and Non-Vertex Software, in object code format that is furnished with the Equipment.

“Source reduction” means any practice that reduces the amount of any hazardous substance, pollutant, or contaminant entering any waste stream or otherwise released into the environment prior to recycling, energy recovery, treatment, or disposal.

“State Location” means any physical location where the State performs work. State Location may include state-owned, leased, or rented space.

“Subcontractor” means a company Contractor delegates performance of a portion of the Services to, but does not include independent contractors engaged by Contractor solely in a staff augmentation role.

“Unauthorized Removal” means the Contractor’s removal of Key Personnel without the prior written consent of the State.

“Vertex Software” or “Vertex Standard Software” means Software that Vertex Standard USA, Inc. or its affiliated company owns.

“Waste prevention” means source reduction and reuse, but not recycling.

“Waste reduction” or “pollution prevention” means the practice of minimizing the generation of waste at the source and, when wastes cannot be prevented, utilizing environmentally sound on-site or off-site reuse and recycling. The term includes equipment or technology modifications, process or procedure modifications, product reformulation or redesign, and raw material substitutions. Waste treatment, control, management, and disposal are not considered pollution prevention, per the definitions under Part 143, Waste Minimization, of the Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451, as amended.

“Work in Progress” means a Deliverable that has been partially prepared, but has not been presented to the State for Approval.

“Work Product” refers to any data compilations, reports, and other media, materials, or other objects or works of authorship created or produced by the Contractor as a result of an in furtherance of performing the services required by this Contract.



**Article 1 – Statement of Work (SOW)**

**1.010 PROJECT IDENTIFICATION**

**1.011 Project Request**

This contract provides the ability to purchase two-way radios, mobile data computers, software, accessories and related services for the Michigan Department of Information Technology (MDIT), Michigan Public Safety Communications System (MPSCS). Additionally, the Contractor will provide professional services, to include but not limited to: extended warranty, installation, maintenance, repair, and training services.

Exact quantities to be purchased are unknown, however the Contractor will be required to furnish all such materials and services as may be ordered during the contract period. Quantities specified if any, are estimates based on prior purchases, and the State is not obligated to purchase in these or any other quantities. Orders for delivery will be issued directly to the Contractor by various State Agencies.

This contract is available to MiDEAL purchasing members as identified in Article 2, Section 2.281 MiDEAL.

**1.012 Background**

Due to federal mandate, all VHF and UHF radios used by the State that are not narrow band capable will need to be replaced by 2012. Most of the communications equipment is now over 11 years old and has reached its end of life cycle. Replacement of this equipment is necessary as it is cost prohibited to continue making repairs.

Contractor will provide state agencies and local units of government including cities, villages, counties, townships, school districts, non-profit hospitals, and institutions of higher education a means to purchase two-way radios, mobile data computers, software, accessories and related services.

**1.020 SCOPE OF WORK AND DELIVERABLES**

**1.021 In Scope**

The following commodities and services categories (but not limited to) shall be considered in scope for the resulting contract:

- 1.0** FIXED STATIONS
  - 1.1** FIXED STATION ACCESSORIES
  - 1.2** FIXED STATION CONTROLS
  - 1.3** ANTENNA SYSTEMS
  - 1.4** RECEIVERS
  - 1.5** MICROWAVE
- 2.0** MOBILE RADIOS
  - 2.1** MOBILE ACCESSORY
- 3.0** PORTABLE RADIOS
- 4.0** PAGERS
  - 4.1** PAGING ENCODERS
- 5.0** SECURE SOLUTIONS
- 6.0** TRUNKED RADIO
- 7.0** FLASHPORT
- 8.0** DATA SYSTEMS
- 9.0** BROADBAND SOLUTIONS
- 10.0** BIOMETRICS
- 11.0** FIXED & MOBILE DATA
- 12.0** INTEGRATED SOLUTIONS (SOFTWARE)



**13.0 PARTS & ACCESSORIES**  
**14.0 PROFESSIONAL SERVICES**

- Extended Warranty
- Installation
- Maintenance
- Repair
- Training services

See Attachment A for the complete list of products and services that are currently available through this contract.

**1.022 Work and Deliverable**

Contractor must provide Deliverables/Services and staff, and otherwise do all things necessary for or incidental to the performance of work, as set forth in Article 1 of this Contract.

**1.022 (A) Product Requirements**

**1.022 (A.1) Specifications**

All pre-approved MDIT commodities to be furnished hereunder are listed in Attachment A. Any additional items will require pre-approval by MPSCS, and submission the product specifications.

**1.022 (A.2) Research and Development**

Contractor shall invest in new product research and development to stay current with ongoing demands.

**1.022 (A.3) Quality Assurance Program**

The Contractor shall have a written quality control program which ensures that all manufacturers and suppliers to the Contractor have effective quality control programs, have standard operating procedures and use good manufacturing practices. The Contractor shall monitor the quality control program of all suppliers and manufacturers.

The State reserves the right to periodically test products which have been received to verify compliance with specifications. If laboratory analysis shows that the product does not meet specifications or fails to perform satisfactorily at any time, the Contractor shall be responsible for:

- 1) All costs of testing and laboratory analysis.
- 2) Disposal and/or replacement of all products which fail to meet specifications.
- 3) All costs of repair and/or replacement of equipment deemed to have been damaged by substandard products as determined by the State.

**1.022 (A.4) Warranty for Products or Services**

Contractor shall support and supply parts to undertake all programming, repairs and preventive maintenance according to the applicable manufacturer's recommendations for the period specified in this Contract.

The Contractor represents and warrants that the equipment/system(s) are in good operating condition and operate and perform to the requirements and other standards of performance contained in this Contract, when installed, at the time of Acceptance by the State, and for a period of **three years** commencing upon the first day following Acceptance.

While the equipment is under warranty, the Contractor must adjust, repair or replace all equipment that is defective or not performing in compliance with the Contract. The Contractor must assume all costs for replacing parts or units and their installation including transportation and delivery fees, if any.



The Contractor must provide a customer service telephone number to allow the State to report equipment failures and problems to be remedied by the Contractor.

The Contractor agrees that all warranty service it provides under this Contract must be performed by Original Equipment Manufacturer (OEM) trained, certified and authorized technicians.

The Contractor is the sole point of contact for warranty service. The Contractor warrants that it will pass through to the State any warranties obtained or available from the original equipment manufacturer, including any replacement, upgraded, or additional equipment warranties. All materials, equipment, parts and labor shall be guaranteed for a minimum period of **1 year** to begin from the date the equipment is received by the State and in accordance with the following:

The contractor(s) shall, without charge for parts and labor, repair or replace any defective components, materials or parts, if notice of such defect is given to the contractor (s) within the applicable Warranty Period.

Maintenance provided under such warranties shall be provided, during the applicable Warranty Period, under the following terms and conditions:

- 1) The period in which maintenance shall be provided will be 8:00 a.m. to 5:00 p.m. Monday through Friday, excluding legal State designated holidays.
- 2) The State may report a defect Monday through Friday, excluding legal State designated holidays, by telephone call to the contractor(s).
- 3) Arrangements shall be made within 2 (two) State working days of defect notice. Repairs shall be completed and equipment returned or replaced within 30 days.
- 4) Contractor(s) will proceed expeditiously to complete the repair of any defect or failure reported by the State. If any State agency is experiencing an equipment failure rate of greater than 5%, the contractor(s) shall provide immediate repair/replacement of all equipment of the same make and model purchased against the subject contract.
- 5) The address(s) of warranty repair facilities shall be included in the bid with the contract person name and phone number.

Additional Warranty Detail

“Warranty Period” means 3 years for radios and 1 year for accessories from acceptance or use for operational purposes, whichever occurs first. During the Warranty Period, Vertex Standard warrants that the equipment under normal use and service will be free from material defects in materials and workmanship.

If acceptance is delayed beyond six (6) months after shipment of the Equipment by events or causes within the Commonwealth's control, this warranty expires 3 years or 1 year, plus 6 months, after the shipment of the Equipment (whichever is applicable).

Radios will have post warranty service, accessories will not have post warranty service. Customer Service contact information will be provided at point of sale.

Subject to the Limitations of Warranty and the Warranty Procedures, hereinafter set forth, VERTEX STANDARD, hereby warrants this product to be free of defects in materials and workmanship commencing from the original data of purchase, and continuing for the duration of the warranty described below:

Transceiver Mainframes	36 Months
Repeater Mainframes	36 Months
Internal Accessories	36 Months
External Accessories	12 Months



Limitations of Warranty:

- a. RESERVED
- b. This warranty shall be limited to repair or replacement of any materials found to be defective, any required servicing or adjustment of the product, or replacement of the product should such repair, replacement, servicing, or adjustment be deemed by VERTEX STANDARD to be ineffective. Repair or replacement of defective materials, servicing, adjustment, or replacement of the product, under the terms of this warranty, shall be performed free of charge by the Authorized VERTEX STANDARD Dealer from whom this product was originally purchased.
- c. Any tampering with, misuse of, or damage for any reason to this product shall invalidate this warranty.
- d. This warranty applies only to this product as it existed at the time of the original purchase by the original purchaser at retail, and shall not limit VERTEX STANDARD's right thereafter to make any changes in design, add to, or otherwise improve VERTEX STANDARD products, nor impose any obligation upon VERTEX STANDARD to modify or alter this product to conform to such changes, additions or improvements.
- e. VERTEX STANDARD assumes no responsibility for any consequential damages caused by or arising out of any such defect in materials and workmanship, or with respect to any breach of any implied warranty applicable to this product.
- f. VERTEX STANDARD warrants the materials and repair of products under warranty for 30 days after the work is complete under the terms of our Limited Warranty.
- g. **DISCLAIMER OF OTHER WARRANTIES. THESE WARRANTIES ARE THE COMPLETE WARRANTIES FOR THE EQUIPMENT AND VERTEX STANDARD SOFTWARE PROVIDED UNDER THIS CONTRACT AND ARE GIVEN IN LIEU OF ALL OTHER WARRANTIES. CONTRACTOR DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

**1.022 (A.5) Extended Warranty for Products or Services**

Vertex Standard does not provide extended warranty service on mobile radios, handheld portables, base stations/repeaters, base stations/programmable desktops or mobile data computers, etc. There will be no extended warranty option pricing listed on the Professional Services worksheet.

**1.022 (A.6) Catalogs**

**Products**

The official manufacturer's suggested retail price (MSRP) will be provided to the State as requested. The catalog shall contain a complete description of all available models within each category, manufacturer catalog and product numbers.

**Professional Services**

The Contractor's current list price for the professional services is identified in **Attachment A**. The price listed in Attachment A, will be reduced by the discount percentage provided in Attachment A.

**1.022 (A.7) Service Manuals**

All equipment must have a detailed service manual available for purchase. Detailed service manuals will include theory of operation, electronic schematics, and detailed parts diagrams.

**1.022 (A.8) Environmental Requirements**

**See below, Contractors response to the environmental requirements.**

Energy Efficiency Purchasing Policy – The State shall seek wherever possible to purchase energy efficient products. This may include giving preference to U.S. Environmental Protection Agency (EPA)



certified 'Energy Star' products for any category of products for which EPA has established Energy Star certification. For other purchases, the State may include energy efficiency as one of the priority factors to consider when choosing among comparable bids.

Environmental Purchasing Policy – The State of Michigan has committed to encourage the use of products and services that impact the environment less than competing products. This can be best accomplished by including environmental considerations in purchasing decisions, while remaining fiscally responsible, to promote practices that improve worker health, conserve natural resources, and prevent pollution. Environmental components that may be considered in Best Value Purchasing evaluation include: recycled content and recyclability; energy efficiency; and the presence of undesirable materials in the products, especially those toxic chemicals which are persistent and bio-accumulative. Bidders able to supply products containing recycled and environmentally preferable materials that meet performance requirements are encouraged to offer them in bids and proposals. Information on any relevant third party certification (such as Green Seal, Energy Star, etc.) should also be provided.

I. Recycled Content and Recyclability

A. Recycled Packaging. Bidders may offer some or all of the following items listed below or provide alternative proposal as to how packaging materials can be reduced, eliminated or otherwise made more environmentally preferable. It is desirable that Bidders offer packaging which:

- a. is made from recycled content which meets or exceeds all federal and state recycled content guidelines (currently 35% post-consumer for all corrugated cardboard)
- b. minimizes or eliminates the use of polystyrene or other difficult to recycle materials
- c. minimizes or eliminates the use packaging and containers and, in the alternative, minimizes or eliminates the use of non-recyclable packaging and containers
- d. provides for a return program where packaging can be returned to a specific location for recycling
- e. contains materials which are easily recyclable in Michigan.

All Bidders are requested to indicate below an estimate of the percentage of recycled materials, if any, contained in each item bid. Higher percentages of recycled materials are preferred. Product performance is paramount, whether containing recycled material or not; however, preference will be given to products that perform up to specification and are environmentally preferable without compromising quality.

  0   % (Total estimated percentage of recovered material)

  0   % (Estimated percentage of post-consumer material)

  0   % (Estimated percentage of post-industrial waste)

Certification

I,   Jun Hasegawa   (name of certifier), am an officer or employee responsible for the performance of this contract and hereby certify that the percentage of recovered material content for EPA-designated products met the applicable contract specifications.

  JH   (Initial)

II. Materials Identification and Tracking

A. Hazardous Material Identification. 'Hazardous material', as used in this clause, includes any material defined as hazardous under the latest version of federal Emergency Planning and Community Right-to-



Know Act of 1986 (including revisions adopted during the term of the contract).

- (1) The bidder must list any hazardous material, as defined in §370.20 (a) of 40 CFR, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material (if none, enter 'None')	Identification Number

- (2) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.
- (3) The apparently successful bidder agrees to submit, for each item as required prior to award, a Material Safety Data Sheet for each hazardous material identified in paragraph (1) of this clause. Data shall be submitted in accordance with Section 312 of the federal Emergency Planning and Community Right-to-Know Act, whether or not the apparently successful bidder is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful bidder being considered non-responsive and ineligible for award.

B. Mercury Content. It is the clear intent of state agencies to avoid purchasing products that contain intentionally-added mercury whenever possible. Bidders shall offer mercury-free product alternatives whenever available. Should mercury-free alternatives not exist, as presently is the case with a few select products and devices such as fluorescent lamps or where the alternative is not yet cost competitive, such as dental amalgam, bidders shall offer the lowest mercury content available for a given application. Bidders shall disclose whenever products contain added-mercury by using the following format.

(A few number of components may contain trace amounts of Mercury at levels below those required to meet RoHS compliance.) Product contains added-Mercury (attach an explanation that includes: the amount or concentration of mercury and justification as to why this particular product is essential). In addition, the Bidder shall also ensure that all products to be purchased containing intentionally added-mercury shall be labeled as: “product contains mercury/recycle or dispose of properly.” For instances where space constraints limit the amount or size of print, the chemical symbol “Hg” followed by a picture of a trash container with a diagonal line through it shall suffice for labeling requirements. BIDDERS PLEASE NOTE: Michigan Law Prohibits the sale of mercury-containing thermostats, thermometers, sphygmomanometers (blood pressure monitors) and other types of medical devices. For specific details visit: [http://www.michigan.gov/deq/0,1607,7-135-3307\\_29693\\_4175-160230--,00.html](http://www.michigan.gov/deq/0,1607,7-135-3307_29693_4175-160230--,00.html)

C. Brominated Flame Retardants (BFR). Bidders shall disclose whether the products being offered contain toxic flame retardants. Bidders are encouraged to provide BFR-free alternatives when available.

Product does not contain BFR's

(All products contain trace amounts of BFRs.) Product does contain BFR's (attach an explanation)

D. Ozone Depleting Substances

'Ozone-depleting substance', as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as:

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl



chloroform; or

(2) Class II, including, but not limited to, hydrochlorofluorocarbons.

The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR part 82, Subpart E, as follows:

‘Warning: Contains (or manufactured with, if applicable) \_\_\_\_\_ (insert the name of the substance(s).), a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.’

A. Clean Air and Water

Vendor certifies that any facility to be used in the performance of this contract has all the necessary environmental permits and is in consistent compliance with all applicable environmental requirements and has no outstanding unresolved violations.

The vendor will immediately notify the state, before award, of the receipt of any communication from the Environmental Protection Agency or any state environmental agency, of civil or criminal enforcement for any facility that the vendor proposes to use in the performance of this contract.

\_\_\_\_ JH \_\_\_\_ (Initial)

B. Emergency Planning and Community Right-to-Know Reporting - By signing this offer, the bidder certifies that:

(1) The owner or operator of each facility that will be used in the performance of this contract is in compliance with the filing and reporting requirements described in sections 302, 304, 311, 312 and 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11001, et. seq.) and section 6607 of the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13101, et. seq.). EPCRA filing and reporting requirements include emergency planning notification, release reporting, hazardous chemical inventory reporting, and toxic chemical release inventory (TRI) reporting.

(2) The owner or operator of each facility that will be used in the performance of this contract will maintain compliance with the filing and reporting requirements described in sections 302, 304, 311, 312 and 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11001, et. seq.) and section 6607 of the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13101, et. seq.) for the life of the contract.

\_\_\_\_ JH \_\_\_\_ (Initial)



**1.022 (B) Service Capabilities**

**1.022 (B.1) Maintenance / Service / Equipment Repair / Replacement Parts**

Maintenance, Service and Equipment Repair shall be made available for a minimum of **5 years** for all units *after cancellation of a product*.

The Contractor shall make available, a listing of all equipment replacement parts. Only new parts will be considered. That information shall include pricing information and applied discounts. Parts supply depot address(s) and contact person(s) name and phone numbers shall be included. Replacement parts shall be made available for a minimum of 7 years for all units/equipment after contract period. *Should for unforeseen reasons replacement/repair parts not be available, Vertex Standard will supply comparable product at equal price.*

**1.022 (B.2) Training**

The Contractor will provide training to the State agencies at the agencies request. This training will include operational, technical, installation and product safety training. Contractors pricing for training is provided in the Professional Services worksheet of **Attachment A**. Training will be available upon request, and provided in a reasonably negotiated timeframe.

**1.022 (B.3) Special Programs**

There are no special programs at this time. The Return Authorization Procedures are provided below.



US Headquarters: 10900 Walker Street, Cypress, CA 90630  
Tel (714) 827-7600 Fax (714) 827-8100

### Return Authorization Procedures

Radios returned to Vertex Standard for repair do not require prior company authorization.

If a new radio is received by the Dealer, "dead out of the box", and the Dealer does not want to attempt to repair the radio. Dealer must contact the Vertex Standard Sales Department for a Return Authorization number within 30 days of invoice date.

Vertex Standard has established the following policy for the return of defective equipment:

- ✓ Defective equipment cannot be returned for replacement without prior approval.
- ✓ To obtain approval, complete the Return Authorization Request Form and return to Vertex Standard via fax. Upon approval, this form will be returned to the dealer with RA number. Please include a copy of the RA form with the returned equipment. **The Vertex Standard invoice number is required prior to a Return Authorization number being issued.**
- ✓ Return equipment must include a brief description of the problem. Return authorization number must be clearly marked on outside shipping carton, as well as on all correspondence.
- ✓ Equipment must be returned in its original packing material and carton. **Do not apply shipping label to original carton.** Shipping label cannot be removed from cartons without damage. If equipment cartons must be replaced by Vertex Standard, charges will be deducted from the credit or billed to the Dealer. Vertex Standard recommends the use of outside shipping cartons or paper wrapping.
- ✓ Include all accessories, including warranty registration cards and owner's manual. Vertex Standard will replace any items not returned and the cost deducted from the credit or billed to the Dealer.
- ✓ If a defective unit is received without prior authorization, it will be repaired and returned. No credit will be issued.
- ✓ Failure to follow these guidelines may result in reduced credit amounts.

**Equipment returned for reasons other than repair or replacement is subject to a 10% restocking charge. A return authorization number must be obtained from the sales department.**

#### 1.022 (B.4) Security

The Contractor and its subcontractors shall comply with the security access requirements of individual State facilities; see section 2.090, Security.



**1.022 (B.5) Reports**

Contractor shall be able to provide various reports, when requested by the State. Examples include itemized report of total items (commodities and services) purchased by all agencies or individual agencies, open invoice reports, delivery compliance reports, quantity reports, service compliance reports, etc.

Contractor shall provide an itemized report of Contract usage by State agencies and/or local units of government. Such usage shall be reported upon request from the State. The format of the report(s) will be agreed to by the State and Contractor.

Contractor shall submit MiDEAL reports of purchasing activities to the DMB Purchasing Operations, on a quarterly basis. Reports shall include, at a minimum, an itemized listing of purchasing activities by each agency, with the agency name, and the total value of purchases for each agency, and a grand total of all purchases.

Within thirty (30) days after contract execution, the parties shall determine an appropriate set of periodic reports to be issued by Contractor to the State. Such reports may include:

- Contractor’s performance in each area of the Product Delivery and Professional Services;
  - for each area of the Professional Services, assess the degree to which Contractor has attained or failed to attain the pertinent objectives in that area, including on-time completion and delivery of Deliverables;
  - explain the reasons for any failure to achieve on-time completion and delivery of Deliverables and include a plan for corrective action where appropriate;
  - describe any circumstances that Contractor anticipates will impair or prevent on-time completion and delivery of Deliverables in upcoming reporting periods;
  - include plans for corrective action or risk mitigation where appropriate and describe the status of ongoing problem resolution efforts;
  - provide reports setting forth a comparison of actual hours spent by Contractor (including its augmented personnel and Subcontractors) in performing the Project versus hours budgeted by Contractor.
  - set forth a record of the material personnel changes that pertain to the Services and describe planned changes during the upcoming month that may affect the Services.
  - include such documentation and other information may be mutually agreed to verify compliance with, and meeting the objectives of, this Contract.
  - set forth an updated schedule that provides information on the status of upcoming Deliverables, expected dates of delivery (or redelivery) of such Deliverables and estimates on timing for completion of the Project.

**1.022 (B.6) Meetings**

Within thirty (30) days after contract execution, the parties shall determine an appropriate set of meetings to be held between representatives of the State and Contractor. Contractor shall prepare and circulate an agenda sufficiently in advance of each such meeting to give participants an opportunity to prepare for the meeting. Contractor shall incorporate into such agenda items that the State desires to discuss. At the State’s request, Contractor shall prepare and circulate minutes within 5 business days of the meeting.

**1.022 (B.7) Receiving Orders**

Vertex Standard USA Inc and the authorized dealers representing Vertex Standard USA Inc in the State of Michigan all receive orders via fax, email & mail. The ordering method will be confirmed via Vertex Standard USA Inc and the State or a Vertex Standard USA Inc authorized dealer and the State at time of order for clarity.



**1.022 (B.8) Customer Service**

The Contractor's customer service must respond to State agency inquiries within 2 business days. Contractor and its authorized dealers conducting business under this Contract will comply with the requirement to respond to State inquiries within two (2) business days.

**1.022 (C) Delivery Capabilities**

**1.022 (C.1) Terms and Time Frames**

Prices shall be quoted **Free On Board (FOB) Delivered** with transportation charges prepaid on all orders. Other FOB terms **will not be accepted**.

All risks of loss and damage to the Equipment transfers to the State upon delivery to the State. Title to the Equipment purchased under this Contract shall pass to the State upon delivery and inventory by the State of the Equipment. Title to Software does not pass to the State under any circumstances.

All orders/services shall be delivered throughout the State of Michigan no later than 45 calendar days FOB Delivered after receipt of order. Exceptions may be allowed at the State's discretion based on quantity and complexity. The State is interested in both a standard delivery program and a quick-ship program.

The Contractor shall be responsible for contacting the State agencies to arrange delivery schedules. Failure to deliver items according to established delivery schedules may result in cancellation of the contract for default.

The Contractor and/or authorized Vertex Standard USA Inc dealers will comply with the delivery requirements and will solidify those details per transaction at time of sale.

The Contractor and/or authorized Vertex Standard USA Inc dealers will meet and/or exceed delivery expectations of the State to the best of their ability. Any variations or quick-ship requests will be discussed at point of sale.

**1.022 (C.2) Minimum Order**

There shall be no minimum order requirement for the resulting contract(s).

**1.022 (C.3) Packaging**

The State reserves the right of final approval on packaging offered by the Contractor.

Each order shall be accompanied with a packing slip or invoice. The contractor will provide a detailed invoice within 30 days for shipment and repairs. The packing slip or invoice shall contain the following information:

- Agency name and address
- Purchase order number
- Stock number and brief description of each item
- Unit of issue and quantity issued for each item
- Unit price and extended price for each item
- Date order was received by Contractor
- Total price of order

If order is more than one box, the boxes must be labeled with total number of boxes, individual number of box (i.e. Box 1 of 8), and the purchase order number.



**1.022 (C.4) Palletizing**

The Contractor and/or authorized Vertex Standard dealers will palletize shipments when agreed appropriate with the State. Upon agreement, palletizing will conform to the following requirements.

- Manufacturers standard 4-way shipping pallets are acceptable.
- Maximum height: 5'6"; including pallet.
- Maximum weight: 3500 pounds; including pallet.
- Pallets are to be securely banded or shrink-wrapped.
- The cost of palletizing must be included in the unit price.

**1.030 ROLES AND RESPONSIBILITIES**

**1.031 Contractor Staff, Roles, and Responsibilities**

Contractor has provided a list of all subcontractors, including firm name, address, contact person, and a complete description of the work to be contracted.

Subcontractor Company Information	Subcontractor Contact Information	
<p><b><u>T &amp; W Electronics Inc</u></b>                      1045 S. Division Ave                      Grand Rapids, Michigan 49507                      1-800-531-8409                      Fax 1-616-241-3739</p>	<b><u>Name</u></b>	<b><u>Title/Duties</u></b>
	Kathleen Myers	President & CFO
	David Tubergen	VP of Operations
	Linda Ragnoli	Operations Administrator
	Don Wolbers	Industrial Sales
	Chris Busch	Clerk
	Dave Cunnigan	Senior Technician
	Rob Gage	Bench Technician
	William Robbins	Portable Pager Technician
	Bill VanTimmerman	Senior Technician
<p><b><u>Advanced Wireless Telecom</u></b>                      49716 Martin Drive                      Wixom, MI, 48393                      1-248-295-4600                      Fax 1-248-295-2699</p>		
<p><b><u>Barth Communications</u></b>                      5088 South M-37                      Grawn MI. 49637                      1-231-263-4568                      Fax 1-231-263-4568</p>	<b><u>Name</u></b>	<b><u>Title/Duties</u></b>
	Andrew K Barth	Owner, design, technician
	Daisy L Barth	Office Manager
	Andrew Feldey	Engineering
<p><b><u>Electrocomm–Michigan, Inc.</u></b>                      28 N. Saginaw, Ste 710                      Pontiac, MI 48342                      1-248-334-4300                      Fax 1-248-334-4303</p>	<b><u>Name</u></b>	<b><u>Title/Duties</u></b>
	Richard Pizzi	Management of all sales and service
	Leonard Wozniak	Senior Technician
	James Cords	Service manager
	William Hawkins	Road technician
	Randy Avery	Telemarketing/inside sales
	Archie Denard	Transportation Specialist – sales
	Matthew McPeak	Account Ex – outside sales
	Gwen Fisher	Shop/service support
	Amanda Mercado	Account Specialist – sales, support
	Jean Pizzi	HR, FCC licensing, accounting



The Contractor will provide a **Single Point of Contact (SPOC)**. The duties of the SPOC shall include, but not be limited to:

- supporting the management of the Contract,
- facilitating dispute resolution, and
- advising the State of performance under the terms and conditions of the Contract.

The State reserves the right to require a change in the current SPOC if the assigned SPOC is not, in the opinion of the State, adequately serving the needs of the State.

The SPOC for this contract is:

Joe Tee  
 Vertex Standard  
 Central Regional Sales Manager  
 1301 E. Algonquin Road  
 Schaumburg, Il 60196  
 847-576-2643  
 847-812-0333 (Cell)  
[j.tee@vxstdusa.com](mailto:j.tee@vxstdusa.com)

If the State requests professional services during the term of this contract, the Contractor may be asked to provide a **Project Manager**. The duties of the Project Manager may include, but are not be limited to:

- Manage all defined Contractor responsibilities in this Scope of Services.
- Manage Contractor's subcontractors, if any
- Develop the project plan and schedule, and update as needed
- Serve as the point person for all project issues
- Coordinate and oversee the day-to-day project activities of the project team
- Assess and report project feedback and status
- Escalate project issues, project risks, and other concerns
- Review all project deliverables and provide feedback
- Proactively propose/suggest options and alternatives for consideration
- Utilize change control procedures
- Prepare project documents and materials
- Manage and report on the project's budget

**1.032 Onsite Work Requirements**

**1. Location of Work**

Onsite professional services work is to be performed, completed, and managed at various locations throughout the State.

**2. Hours of Operation:**

- a. Normal State working hours are 8:00 a.m. to 5:00 p.m. EST, Monday through Friday, with work performed as necessary after those hours to meet project deadlines. No overtime will be authorized or paid.
- b. The State is not obligated to provide State management of assigned work outside of normal State working hours. The State reserves the right to modify the work hours in the best interest of the project.
- c. Contractor shall observe the same standard holidays as State employees. The State does not compensate for holiday pay.



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**3. Travel:**

- a. No travel or expenses will be reimbursed. This includes travel costs related to training provided to the State by Contractor.
- b. Travel time will not be reimbursed.

**4. Security and Background Check Requirements:**

See Section 2.090.

**1.031 State Staff, Roles, and Responsibilities**

MDIT shall provide a Project Manager/Contract Compliance Inspector

Name	Agency/Division	Title
Tom Thompson	MDIT/MPSCS	Project Manager

**1.040 PROJECT PLAN MANAGEMENT**

The following section will apply if the State requests professional services that require project management from the Contractor.

The Contractor will carry out this project under the direction and control of the MDIT, MPSCS.

Although there will be continuous liaison with the contractor team, the State project manager will meet with the Contractor’s project manager as needed, for the purpose of reviewing progress and providing necessary guidance to the contractor in solving problems that arise.

The Contractor will submit brief written summaries of progress as needed, which outline the work accomplished during the reporting period; work to be accomplished during the subsequent reporting period; problems, real and anticipated, which should be brought to the attention of the MDIT project manager; and notification of any significant deviation from previously agreed upon work plans.

The Contractor will provide a Microsoft Project work plan, detailing the project breakdown showing sub-projects, activities and tasks, and resources required and allocated to each. The plan shall be in the form of a graphic display, showing each event, task, and decision point in the work plan.

**1.050 ACCEPTANCE**

**1.051 Criteria**

The following criteria will be used by the State to determine Acceptance of the products provided under this Contract:

Product will be inspected by the ordering agency within a reasonable amount of time after receipt, but in no event more than five (5) business days after receipt. Products will not be accepted if the products fail to meet specifications either in product quality or packaging or the product is an unauthorized substitute product. The Contractor must arrange the pick up the rejected product within 48 hours of being notified of the rejection by the agency. Defective items must be exchanged or credited by the Contractor at the option of the agency. Operational use of the products will constitute acceptance.

**1.052 Final Acceptance**

Final Acceptance of professional services will occur when the project is completed and functions according to the requirements specified in the Statement of Work. Any intermediate acceptance of sub-Deliverables does not complete the requirement of Final Acceptance.



**1.060 CONTRACT PRICING AND PAYMENT**

**1.061 Contract Pricing**

**This Contract is a unit price contract based on a percentage off the MSRP for products, and time and material or firm fixed price for professional services.**

Prices quoted are **Free On Board (FOB) Delivered** with transportation charges prepaid on all orders. Other FOB terms **will not be accepted.**

Any new or replacement product shall be available at the negotiated discount rate, which will be based on the pricing of a comparable product line or series.

**Quick Payment Terms:** Purchases directly through Vertex Standard USA Inc will have the ability of a 3% 15 Net 30 prompt pay discount.

**Product Discounts:** The State of Michigan reserves the right to negotiate pricing, discounts and/or rebates directly with the manufacturers for large volume purchases. The Contractor shall pass on to the State all price discounts and reductions in which the State of Michigan is entitled to receive from the manufacturers. These discounts and reductions shall include, without limitation, nonprofit allowances, free goods, rebates, quarterly and other discounts and special manufacturer deal prices. The State reserves the right to change to other product brands carried by the Contractor if the cost is beneficial to the State.

**If a manufacturer offers rebates directly to an agency, the Contractor shall track purchase information for each agency for the items affected and submit this information to the manufacturer as required by the manufacturer.**

Contractor’s out-of-pocket expenses are not separately reimbursable by the State unless, on a case-by-case basis for unusual expenses, the State has agreed in advance and in writing to reimburse Contractor for the expense at the State’s current travel reimbursement rates. See [www.michigan.gov/dmb](http://www.michigan.gov/dmb) for current rates.

**1.062 Price Term**

The MSRP Discount Percentage quoted in **Attachment A**, **shall remain fixed for the duration of the contract.**

The Professional Services Percentage of discount quoted in **Attachment A**, **shall remain fixed for the duration of the contract.**

**Statements of Work and Issuance of Purchase Orders**

The parties agree that the Services/Deliverables to be rendered by Contractor pursuant to this Contract (and any future amendments of it) will be defined and described in detail in Statements of Work or Purchase Orders (PO) executed under this Contract. Contractor shall not be obliged or authorized to commence any work to implement a Statement of Work until authorized via a PO issued against this Contract. Contractor shall perform in accordance with this Contract, including the Statements of Work/Purchase Orders executed under it.

All purchase orders are subject to the terms and conditions of any contract resulting from this Request for Proposals. In the event of a conflict between a purchase order and the contract, the contract shall control.

If mailed, a purchase order is considered “issued” when the State deposits the order in the mail. Orders may be issued orally, by facsimile, or by electronic commerce methods.



**Invoicing**

Contractor will submit properly itemized invoices to “Bill To” Address on Purchase Order. Invoices must provide and itemize, as applicable:

- Contract number;
- Purchase Order number
- Contractor name, address, phone number, and Federal Tax Identification Number;
- Description of any commodities/hardware, including quantity ordered;
- Date(s) of delivery and/or date(s) of installation and set up;
- Price for each item, or Contractor’s list price for each item and applicable discounts;
- Maintenance charges;
- Net invoice price for each item;
- Shipping costs;
- Other applicable charges;
- Total invoice price; and
- Payment terms, including any available prompt payment discount.

The State may pay maintenance and support charges on a monthly basis, in arrears. Payment of maintenance service/support of less than one (1) month’s duration shall be prorated at 1/30th of the basic monthly maintenance charges for each calendar day.

Incorrect or incomplete invoices will be returned to Contractor for correction and reissue.

**1.063 Tax Excluded from Price**

(a) Sales Tax: For purchases made directly by the State, the State is exempt from State and Local Sales Tax. Prices must not include the taxes. Exemption Certificates for State Sales Tax will be furnished upon request.

(b) Federal Excise Tax: The State may be exempt from Federal Excise Tax, or the taxes may be reimbursable, if articles purchased under any resulting Contract are used for the State’s exclusive use. Certificates showing exclusive use for the purposes of substantiating a tax-free, or tax-reimbursable sale will be sent upon request. If a sale is tax exempt or tax reimbursable under the Internal Revenue Code, prices must not include the Federal Excise Tax.

**1.064 Holdback - RESERVED**



**Article 2, Terms and Conditions**

**2.000 Contract Structure and Term**

**2.001 Contract Term**

This Contract is for a period beginning **March 28, 2011** through **January 19, 2013**. All outstanding Purchase Orders must also expire upon the termination (cancellation for any of the reasons listed in **Section 2.130**) of the Contract, unless otherwise extended under the Contract. Absent an early termination for any reason, Purchase Orders issued but not expired, by the end of the Contract's stated term, will remain in effect for the balance of the fiscal year for which they were issued.

**2.002 Options to Renew**

This Contract may be renewed in writing by mutual agreement of the parties not less than 30 days before its expiration. The Contract may be renewed for up to **5** additional **1 year** periods.

**2.003 Legal Effect**

Contractor shall show acceptance of this Contract by signing two copies of the Contract and returning them to the Contract Administrator. The Contractor shall not proceed with the performance of the work to be done under the Contract, including the purchase of necessary materials, until both parties have signed the Contract to show acceptance of its terms, and the Contractor receives a contract release/purchase order that authorizes and defines specific performance requirements.

Except as otherwise agreed in writing by the parties, the State assumes no liability for costs incurred by Contractor or payment under this Contract, until Contractor is notified in writing that this Contract (or Change Order) has been approved by the State Administrative Board (if required), approved and signed by all the parties, and a Purchase Order against the Contract has been issued.

**2.004 Attachments & Exhibits**

All Attachments and Exhibits affixed to any and all Statement(s) of Work, or appended to or referencing this Contract, are incorporated in their entirety and form part of this Contract.

**2.005 Ordering**

The State will issue a written Purchase Order, Blanket Purchase Order, Direct Voucher or Procurement Card Order, which must be approved by the Contract Administrator or the Contract Administrator's designee, to order any Services/Deliverables under this Contract. All orders are subject to the terms and conditions of this Contract. No additional terms and conditions contained on either a Purchase Order or Blanket Purchase Order apply unless they are also specifically contained in that Purchase Order's or Blanket Purchase Order's accompanying Statement of Work. Exact quantities to be purchased are unknown; however, the Contractor will be required to furnish all such materials and services as may be ordered during the CONTRACT period. Quantities specified, if any, are estimates based on prior purchases, and the State is not obligated to purchase in these or any other quantities.

**2.006 Order of Precedence**

(a) The Contract, including any Statements of Work and Exhibits, to the extent not contrary to the Contract, each of which is incorporated for all purposes, constitutes the entire agreement between the parties with respect to the subject matter and supersedes all prior agreements, whether written or oral, with respect to the subject matter and as additional terms and conditions on the purchase order must apply as limited by **Section 2.005**.

(b) In the event of any inconsistency between the terms of the Contract and a Statement of Work, the terms of the Statement of Work will take precedence (as to that Statement of Work only); provided, however, that a Statement of Work may not modify or amend the terms of the Contract, which may be modified or amended only by a formal Contract amendment.



**2.007 Headings**

Captions and headings used in the Contract are for information and organization purposes. Captions and headings, including inaccurate references, do not, in any way, define or limit the requirements or terms and conditions of the Contract.

**2.008 Form, Function & Utility**

If the Deliverable/Service does not meet the form, function, and utility required by that State agency, that agency may, subject to State purchasing policies, procure the Deliverable/Service from another source.

**2.009 Reformation and Severability**

Each provision of the Contract is severable from all other provisions of the Contract and, if one or more of the provisions of the Contract is declared invalid, the remaining provisions of the Contract remain in full force and effect.

**2.010 Consents and Approvals**

Except as expressly provided otherwise in the Contract, if either party requires the consent or approval of the other party for the taking of any action under the Contract, the consent or approval must be in writing and must not be unreasonably withheld or delayed.

**2.011 No Waiver of Default**

If a party fails to insist upon strict adherence to any term of the Contract then the party has not waived the right to later insist upon strict adherence to that term, or any other term, of the Contract.

**2.012 Survival**

Any provisions of the Contract that impose continuing obligations on the parties, including without limitation the parties' respective warranty, indemnity and confidentiality obligations, survive the expiration or termination of the Contract for any reason. Specific references to survival in the Contract are solely for identification purposes and not meant to limit or prevent the survival of any other section.

**2.020 Contract Administration**

**2.021 Issuing Office**

This Contract is issued by the Department of Management and Budget, Purchasing Operations (collectively, including all other relevant State of Michigan departments and agencies, the "State"). Purchasing Operations is the sole point of contact in the State with regard to all procurement and contractual matters relating to the Contract. Purchasing Operations **is the only State office authorized to change, modify, amend, alter or clarify the prices, specifications, terms and conditions of this Contract.** The Contractor Administrator within Purchasing Operations for this Contract is:

Steve Motz  
 Purchasing Operations  
 Department of Management and Budget  
 Mason Bldg, 2nd Floor  
 PO Box 30026  
 Lansing, MI 48909  
 motzs@michigan.gov  
 517-241-3215

**2.022 Project Manager / Contract Compliance Inspector (CCI)**

After DMB-PurchOps receives the properly executed Contract, it is anticipated that the Director of Purchasing Operations, will direct the person named below, or any other person so designated, to



monitor and coordinate the activities for the Contract on a day-to-day basis during its term. However, monitoring of this Contract implies **no authority to change, modify, clarify, amend, or otherwise alter the prices, terms, conditions and specifications of the Contract as that authority is retained by DMB Purchasing Operations.** The Contract Compliance Inspector for this Contract is:

Tom Thompson  
 Department of Information Technology  
 4000 Collins Road  
 Lansing, MI  
[thompson8@michigan.gov](mailto:thompson8@michigan.gov)  
 517-336-6618

**2.024 Change Requests**

The State reserves the right to request from time to time any changes to the requirements and specifications of the Contract and the work to be performed by the Contractor under the Contract. During the course of ordinary business, it may become necessary for the State to discontinue certain business practices or create Additional Services/Deliverables. At a minimum, to the extent applicable, the State would like the Contractor to provide a detailed outline of all work to be done, including tasks necessary to accomplish the services/deliverables, timeframes, listing of key personnel assigned, estimated hours for each individual per task, and a complete and detailed cost justification.

If the Contractor does not so notify the State, the Contractor has no right to claim thereafter that it is entitled to additional compensation for performing that service or providing that deliverable.

Change Requests:

- (a) By giving Contractor written notice within a reasonable time, the State must be entitled to accept a Contractor proposal for Change, to reject it, or to reach another agreement with Contractor. Should the parties agree on carrying out a Change, a written Contract Change Notice must be prepared and issued under this Contract, describing the Change and its effects on the Services and any affected components of this Contract (a "Contract Change Notice").
- (b) No proposed Change must be performed until the proposed Change has been specified in a duly executed Contract Change Notice issued by the Department of Management and Budget, Purchasing Operations.
- (c) If the State requests or directs the Contractor to perform any activities that Contractor believes constitute a Change, the Contractor must notify the State that it believes the requested activities are a Change before beginning to work on the requested activities. If the Contractor fails to notify the State before beginning to work on the requested activities, then the Contractor waives any right to assert any claim for additional compensation or time for performing the requested activities. If the Contractor commences performing work outside the scope of this Contract and then ceases performing that work, the Contractor must, at the request of the State, retract any out-of-scope work that would adversely affect the Contract.

**2.025 Notices**

Any notice given to a party under the Contract must be deemed effective, if addressed to the party as addressed below, upon: (i) delivery, if hand delivered; (ii) receipt of a confirmed transmission by facsimile if a copy of the notice is sent by another means specified in this Section; (iii) the third Business Day after being sent by U.S. mail, postage pre-paid, return receipt requested; or (iv) the next Business Day after being sent by a nationally recognized overnight express courier with a reliable tracking system.

State:  
 State of Michigan  
 Purchasing Operations



Attention:  
 PO Box 30026  
 530 West Allegan  
 Lansing, Michigan 48909

Contractor:  
 Vertex Standard USA, Inc.  
 10900 Walker Street  
 Cypress, CA 90630

Copy to:  
 Law Department – Vertex Standard USA, Inc.  
 C/O Motorola, Inc.  
 1301 E. Algonquin Rd., SH5  
 Schaumburg, IL 60196  
 Attn.: Commercial Counsel

Either party may change its address where notices are to be sent by giving notice according to this Section.

**2.026 Binding Commitments**

Representatives of Contractor must have the authority to make binding commitments on Contractor's behalf within the bounds set forth in the table. Contractor may change the representatives from time to time upon written notice.

**2.027 Relationship of the Parties**

The relationship between the State and Contractor is that of client and independent contractor. No agent, employee, or servant of Contractor or any of its Subcontractors must be or must be deemed to be an employee, agent or servant of the State for any reason. Contractor will be solely and entirely responsible for its acts and the acts of its agents, employees, servants and Subcontractors during the performance of the Contract.

**2.028 Covenant of Good Faith**

Each party must act reasonably and in good faith. Unless stated otherwise in the Contract, the parties will not unreasonably delay, condition or withhold the giving of any consent, decision or approval that is either requested or reasonably required of them in order for the other party to perform its responsibilities under the Contract.

**2.029 Assignments**

(a) Neither party may assign the Contract, or assign or delegate any of its duties or obligations under the Contract, to any other party (whether by operation of law or otherwise), without the prior written consent of the other party; provided, however, that the State may assign the Contract to any other State agency, department, division or department without the prior consent of Contractor and Contractor may assign the Contract to an affiliate so long as the affiliate is adequately capitalized and can provide adequate assurances that the affiliate can perform the Contract. The State may withhold consent from proposed assignments, subcontracts, or novations when the transfer of responsibility would operate to decrease the State's likelihood of receiving performance on the Contract or the State's ability to recover damages.

(b) Contractor may not, without the prior written approval of the State, assign its right to receive payments due under the Contract. If the State permits an assignment, the Contractor is not relieved of its responsibility to perform any of its contractual duties, and the requirement under the Contract that all payments must be made to one entity continues.



(c) If the Contractor intends to assign the contract or any of the Contractor's rights or duties under the Contract, the Contractor must notify the State in writing at least 30 days before the assignment. The Contractor also must provide the State with adequate information about the assignee within a reasonable amount of time before the assignment for the State to determine whether to approve the assignment.

**2.030 General Provisions**

**2.031 Media Releases**

News releases (including promotional literature and commercial advertisements) pertaining to the RFP and Contract or project to which it relates shall not be made without prior written State approval, and then only in accordance with the explicit written instructions from the State. No results of the activities associated with the RFP and Contract are to be released without prior written approval of the State and then only to persons designated.

**2.032 Contract Distribution**

Purchasing Operations retains the sole right of Contract distribution to all State agencies and local units of government unless other arrangements are authorized by Purchasing Operations.

**2.033 Permits**

Contractor must obtain and pay any associated costs for all required governmental permits, licenses and approvals for the delivery, installation and performance of the Services. The State must pay for all costs and expenses incurred in obtaining and maintaining any necessary easements or right of way.

**2.034 Website Incorporation**

The State is not bound by any content on the Contractor's website, even if the Contractor's documentation specifically referenced that content and attempts to incorporate it into any other communication, unless the State has actual knowledge of the content and has expressly agreed to be bound by it in a writing that has been manually signed by an authorized representative of the State.

**2.035 Future Bidding Preclusion**

Contractor acknowledges that, to the extent this Contract involves the creation, research, investigation or generation of a future RFP; it may be precluded from bidding on the subsequent RFP. The State reserves the right to disqualify any bidder if the State determines that the bidder has used its position (whether as an incumbent Contractor, or as a Contractor hired to assist with the RFP development, or as a Vendor offering free assistance) to gain a competitive advantage on the RFP.

**2.036 Freedom of Information**

All information in any proposal submitted to the State by Contractor and this Contract is subject to the provisions of the Michigan Freedom of Information Act, 1976 Public Act No. 442, as amended, MCL 15.231, et seq (the "FOIA").

**2.037 Disaster Recovery**

Contractor and the State recognize that the State provides essential services in times of natural or man-made disasters. Therefore, except as so mandated by Federal disaster response requirements, Contractor personnel dedicated to providing Services/Deliverables under this Contract will provide the State with priority service for repair and work around in the event of a natural or man-made disaster.

**2.040 Financial Provisions**

**2.041 Fixed Prices for Services/Deliverables**

Each Statement of Work or Purchase Order issued under this Contract shall specify (or indicate by reference to the appropriate Contract Exhibit) the firm, fixed prices for all Services/Deliverables, and the associated payment milestones and payment amounts. The State may make progress payments to the Contractor when requested as work progresses, but not more frequently than monthly, in amounts



approved by the Contract Administrator, after negotiation. Contractor must show verification of measurable progress at the time of requesting progress payments.

**2.042 Adjustments for Reductions in Scope of Services/Deliverables**

If the scope of the Services/Deliverables under any Statement of Work issued under this Contract is subsequently reduced by the State, the parties shall negotiate an equitable reduction in Contractor's charges under such Statement of Work commensurate with the reduction in scope.

**2.043 Services/Deliverables Covered**

For all Services/Deliverables to be provided by Contractor (and its Subcontractors, if any) under this Contract, the State shall not be obligated to pay any amounts in addition to the charges specified in this Contract.

**2.044 Invoicing and Payment – In General**

- (a) Each Statement of Work issued under this Contract shall list (or indicate by reference to the appropriate Contract Exhibit) the prices for all Services/Deliverables, equipment and commodities to be provided, and the associated payment milestones and payment amounts.
- (b) Each Contractor invoice will show details as to charges by Service/Deliverable component and location at a level of detail reasonably necessary to satisfy the State's accounting and charge-back requirements. Invoices for Services performed on a time and materials basis will show, for each individual, the number of hours of Services performed during the billing period, the billable skill/labor category for such person and the applicable hourly billing rate. Prompt payment by the State is contingent on the Contractor's invoices showing the amount owed by the State minus any holdback amount to be retained by the State in accordance with **Section 1.064**.
- (c) Correct invoices will be due and payable by the State, in accordance with the State's standard payment procedure as specified in 1984 Public Act No. 279, MCL 17.51 et seq., within 45 days after receipt, provided the State determines that the invoice was properly rendered.
- (d) All invoices should reflect actual work done. Specific details of invoices and payments will be agreed upon between the Contract Administrator and the Contractor after the proposed Contract Agreement has been signed and accepted by both the Contractor and the Director of Purchasing Operations, Department of Management & Budget. This activity will occur only upon the specific written direction from Purchasing Operations.

The specific payment schedule for any Contract(s) entered into, as the State and the Contractor(s) will mutually agree upon. The schedule should show payment amount and should reflect actual goods delivered or work done by the payment dates, less any penalty cost charges accrued by those dates. As a general policy statements shall be forwarded to the designated representative by the 15th day of the following month.

The Government may make progress payments to the Contractor when requested as work progresses, but not more frequently than monthly, in amounts approved by the Contract Administrator, after negotiation. Contractor must show verification of measurable progress at the time of requesting progress payments.

**2.045 Pro-ration**

To the extent there are any Services that are to be paid for on a monthly basis, the cost of such Services shall be pro-rated for any partial month.

**2.046 Antitrust Assignment**

The Contractor assigns to the State any claim for overcharges resulting from antitrust violations to the extent that those violations concern materials or services supplied by third parties to the Contractor, toward fulfillment of this Contract.



**2.047 Final Payment**

The making of final payment by the State to Contractor does not constitute a waiver by either party of any rights or other claims as to the other party's continuing obligations under the Contract, nor will it constitute a waiver of any claims by one party against the other arising from unsettled claims or failure by a party to comply with this Contract, including claims for Services and Deliverables not reasonably known until after acceptance to be defective or substandard. Contractor's acceptance of final payment by the State under this Contract shall constitute a waiver of all claims by Contractor against the State for payment under this Contract, other than those claims previously filed in writing on a timely basis and still unsettled.

**2.048 Electronic Payment Requirement**

Electronic transfer of funds is required for payments on State Contracts. Contractors are required to register with the State electronically at <http://www.cpexpress.state.mi.us>. As stated in Public Act 431 of 1984, all contracts that the State enters into for the purchase of goods and services shall provide that payment will be made by electronic fund transfer (EFT).

**2.050 Taxes**

**2.051 Employment Taxes**

Contractors are expected to collect and pay all applicable federal, state, and local employment taxes, including the taxes.

**2.052 Sales and Use Taxes**

Contractors are required to be registered and to remit sales and use taxes on taxable sales of tangible personal property or services delivered into the State. Contractors that lack sufficient presence in Michigan to be required to register and pay tax must do so as a volunteer. This requirement extends to: (1) all members of any controlled group as defined in § 1563(a) of the Internal Revenue Code and applicable regulations of which the company is a member, and (2) all organizations under common control as defined in § 414(c) of the Internal Revenue Code and applicable regulations of which the company is a member that make sales at retail for delivery into the State are registered with the State for the collection and remittance of sales and use taxes. In applying treasury regulations defining "two or more trades or businesses under common control" the term "organization" means sole proprietorship, a partnership (as defined in § 701(a)(2) of the Internal Revenue Code), a trust, an estate, a corporation, or a limited liability company.

**2.060 Contract Management**

**2.061 Contractor Personnel Qualifications**

All persons assigned by Contractor to the performance of Services under this Contract must be employees of Contractor or its majority-owned (directly or indirectly, at any tier) subsidiaries (or a State-approved Subcontractor) and must be fully qualified to perform the work assigned to them. Contractor must include a similar provision in any subcontract entered into with a Subcontractor. For the purposes of this Contract, independent contractors engaged by Contractor solely in a staff augmentation role must be treated by the State as if they were employees of Contractor for this Contract only; however, the State understands that the relationship between Contractor and Subcontractor is an independent contractor relationship.

**2.062 Contractor Key Personnel**

- (a) The Contractor must provide the Contract Compliance Inspector with the names of the Key Personnel.
- (b) Key Personnel must be dedicated as defined in the Statement of Work to the Project for its duration in the applicable Statement of Work with respect to other individuals designated as Key Personnel for that Statement of Work.
- (c) The State will have the right to recommend and approve in writing the initial assignment, as well as any proposed reassignment or replacement, of any Key Personnel. Before assigning an individual



to any Key Personnel position, Contractor will notify the State of the proposed assignment, will introduce the individual to the appropriate State representatives, and will provide the State with a resume and any other information about the individual reasonably requested by the State. The State reserves the right to interview the individual before granting written approval. In the event the State finds a proposed individual unacceptable, the State will provide a written explanation including reasonable detail outlining the reasons for the rejection.

(d) Contractor must not remove any Key Personnel from their assigned roles or the Contract without the prior written consent of the State. The Contractor’s removal of Key Personnel without the prior written consent of the State is an unauthorized removal (“Unauthorized Removal”). Unauthorized Removals does not include replacing Key Personnel for reasons beyond the reasonable control of Contractor, including illness, disability, leave of absence, personal emergency circumstances, resignation or for cause termination of the Key Personnel’s employment. Unauthorized Removals does not include replacing Key Personnel because of promotions or other job movements allowed by Contractor personnel policies or Collective Bargaining Agreement(s) as long as the State receives prior written notice before shadowing occurs and Contractor provides 30 days of shadowing unless parties agree to a different time period. The Contractor with the State must review any Key Personnel replacements, and appropriate transition planning will be established. Any Unauthorized Removal may be considered by the State to be a material breach of the Contract, in respect of which the State may elect to exercise its termination and cancellation rights.

(e) The Contractor must notify the Contract Compliance Inspector and the Contract Administrator at least 10 business days before redeploying non-Key Personnel, who are dedicated to primarily to the Project, to other projects. If the State does not object to the redeployment by its scheduled date, the Contractor may then redeploy the non-Key Personnel.

**2.063 Re-assignment of Personnel at the State’s Request**

The State reserves the right to require the removal from the Project of Contractor personnel found, in the judgment of the State, to be unacceptable. The State’s request must be written with reasonable detail outlining the reasons for the removal request. Additionally, the State’s request must be based on legitimate, good-faith reasons. Replacement personnel for the removed person must be fully qualified for the position. If the State exercises this right, and the Contractor cannot immediately replace the removed personnel, the State agrees to an equitable adjustment in schedule or other terms that may be affected by the State’s required removal. If any incident with removed personnel results in delay not reasonably anticipatable under the circumstances and which is attributable to the State, the applicable SLA(s) for the affected Service will not be counted for a time as agreed to by the parties.

**2.064 Contractor Personnel Location**

All staff assigned by Contractor to work on the Contract will perform their duties either primarily at Contractor’s offices and facilities or at State facilities. Without limiting the generality of the foregoing, Key Personnel will, at a minimum, spend at least the amount of time on-site at State facilities as indicated in the applicable Statement of Work. Subject to availability, selected Contractor personnel may be assigned office space to be shared with State personnel.

**2.065 Contractor Identification**

Contractor employees must be clearly identifiable while on State property by wearing a State-issued badge, as required. Contractor employees are required to clearly identify themselves and the company they work for whenever making contact with State personnel by telephone or other means.

**2.066 Cooperation with Third Parties**

Contractor agrees to cause its personnel and the personnel of any Subcontractors to cooperate with the State and its agents and other contractors including the State’s Quality Assurance personnel. As reasonably requested by the State in writing, the Contractor will provide to the State’s agents and other contractors reasonable access to Contractor’s Project personnel, systems and facilities to the extent the access relates to activities specifically associated with this Contract and will not interfere or jeopardize the safety or operation of the systems or facilities. The State acknowledges that Contractor’s time schedule for the Contract is very specific and agrees not to unnecessarily or



unreasonably interfere with, delay or otherwise impeded Contractor’s performance under this Contract with the requests for access.

The State must provide Vertex Standard fifteen (15) days written notice prior to the inspection of any facility and will be responsible for its own costs associated with such inspection(s). The Contractor will restrict inspection of its facilities to normal business hours, to areas that are relevant to the performance of the Agreement, and to areas which Contractor does not consider confidential or proprietary in nature. A Contractor representative must accompany Customer’s employees at all times.

In no event shall Contractor be obligated to create or maintain documents or records not kept in the ordinary course of Contractor’s business, nor shall Contractor be obligated to disclose any information it deems confidential or proprietary, including but not limited to cost data and employee records.

**2.067 Contract Management Responsibilities**

The Contractor will be required to assume responsibility for all contractual activities, whether or not that Contractor performs them. Further, the State will consider the Contractor to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the anticipated Contract. If any part of the work is to be subcontracted, the Contract must include a list of subcontractors, including firm name and address, contact person and a complete description of work to be subcontracted. The State reserves the right to approve subcontractors and to require the Contractor to replace subcontractors found to be unacceptable. The Contractor is totally responsible for adherence by the subcontractor to all provisions of the Contract. Any change in subcontractors must be approved by the State, in writing, prior to such change.

**2.068 Contractor Return of State Equipment/Resources**

The Contractor must return to the State any State-furnished equipment, facilities and other resources when no longer required for the Contract in the same condition as when provided by the State, reasonable wear and tear excepted.

**2.070 Subcontracting by Contractor**

**2.071 Contractor full Responsibility**

Contractor shall have full responsibility for the successful performance and completion of all of the Services and Deliverables. The State will consider Contractor to be the sole point of contact with regard to all contractual matters under this Contract, including payment of any and all charges for Services and Deliverables.

**2.072 State Consent to delegation**

Contractor shall not delegate any duties under this Contract to a Subcontractor unless the Department of Management and Budget, Purchasing Operations has given written consent to such delegation. The State shall have the right of prior written approval of all Subcontractors and to require Contractor to replace any Subcontractors found, in the reasonable judgment of the State, to be unacceptable. The State’s request shall be written with reasonable detail outlining the reasons for the removal request. Additionally, the State’s request shall be based on legitimate, good-faith reasons. Replacement Subcontractor(s) for the removed Subcontractor shall be fully qualified for the position. If the State exercises this right, and the Contractor cannot immediately replace the removed Subcontractor, the State will agree to an equitable adjustment in schedule or other terms that may be affected by the State’s required removal. If any such incident with a removed Subcontractor results in delay not reasonable anticipatable under the circumstances and which is attributable to the State, the applicable SLA for the affected Work will not be counted in time agreed upon by the parties.



**2.073 Subcontractor bound to Contract**

In any subcontracts entered into by Contractor for the performance of the Services, Contractor shall require the Subcontractor, to the extent of the Services to be performed by the Subcontractor, to be bound to Contractor by the terms of this Contract and to assume toward Contractor all of the obligations and responsibilities that Contractor, by this Contract, assumes toward the State. The State reserves the right to receive copies of and review all subcontracts, although Contractor may delete or mask any proprietary information, including pricing, contained in such contracts before providing them to the State. The management of any Subcontractor will be the responsibility of Contractor, and Contractor shall remain responsible for the performance of its Subcontractors to the same extent as if Contractor had not subcontracted such performance. Contractor shall make all payments to Subcontractors or suppliers of Contractor. Except as otherwise agreed in writing by the State and Contractor, the State will not be obligated to direct payments for the Services other than to Contractor. The State's written approval of any Subcontractor engaged by Contractor to perform any obligation under this Contract shall not relieve Contractor of any obligations or performance required under this Contract. Attached as **Exhibit A** is a list of the Subcontractors, if any, approved by the State as of the execution of this Contract, together with a copy of the applicable subcontract.

**2.074 Flow Down**

Except where specifically approved in writing by the State on a case-by-case basis, Contractor shall flow down the obligations in **Sections 2.031, 2.060, 2.100, 2.110, 2.120, 2.130, 2.200** in all of its agreements with any Subcontractors.

**2.075 Competitive Selection**

The Contractor shall select subcontractors (including suppliers) on a competitive basis to the maximum practical extent consistent with the objectives and requirements of the Contract.

**2.080 State Responsibilities**

**2.081 Equipment**

The State will provide only the equipment and resources identified in the Statements of Work and other Contract Exhibits.

**2.082 Facilities**

The State must designate space as long as it is available and as provided in the Statement of Work, to house the Contractor's personnel whom the parties agree will perform the Services/Deliverables at State facilities (collectively, the "State Facilities"). The Contractor must have reasonable access to, and unless agreed otherwise by the parties in writing must observe and comply with all rules and regulations relating to each of the State Facilities (including hours of operation) used by the Contractor in the course of providing the Services. Contractor agrees that it will not, without the prior written consent of the State, use any State Facilities or access any State information systems provided for the Contractor's use, or to which the Contractor otherwise gains access in the course of performing the Services, for any purpose other than providing the Services to the State.

**2.090 Security**

**2.091 Background Checks**

On a case-by-case basis, the State may investigate the Contractor's personnel before they may have access to State facilities and systems. The scope of the background check is at the discretion of the State and the results will be used to determine Contractor personnel eligibility for working within State facilities and systems. The investigations will include Michigan State Police Background checks (ICHAT) and may include the National Crime Information Center (NCIC) Finger Prints. Proposed Contractor personnel may be required to complete and submit an RI-8 Fingerprint Card for the NCIC Finger Print Check. Any request for background checks will be initiated by the State and will be reasonably related to the type of work requested. The Contractor will be responsible for all costs associated with the background checks.



Contractor, as part of its normal hiring process, routinely conducts background checks on all its new hires. Because the Contract leaves the scope of the background checks to the discretion of the State, Contractor cannot agree to submit to such background checks of its employees until such time as further information is provided for Contractor’s review. In the event that Contractor and its employees agree to background checks as part of the performance of the Contract, the background checks must not be overly broad; i.e., clearly defined in scope and in compliance with all federal, state, and local laws, must be conducted at the State’s expense, and the State must provide notice and consent forms clearly indicating that the background check shall abide by the Fair Credit Reporting Act and any applicable laws.

Privacy is an important concern for Contractor and its employees who are subjected to customer-facilitated background checks. The State must have policies and procedures in place to reasonably protect the background information received. If, upon receipt of additional information regarding the proposed background checks, Contractor agrees to be subject to background checks as part of its performance of the Contract, the final contract documents must include a clear description of the policies and procedures governing the background checks, including but not limited to:

- Use of the information collected will be for the specific purpose of facilitating a background check;
- All information collected will be treated as confidential;
- The State will limit access to the information received and will properly store it in a reasonably secure manner;
- The State will promptly dispose in an appropriate manner all collected information when the purpose for which it was originally collected is no longer valid; and
- The State must assume all liability associated with the background check.

All Contractor personnel shall comply with the State’s security and acceptable use policies for State IT equipment and resources. See <http://www.michigan.gov/dit>. Furthermore, Contractor personnel shall comply with the State’s security and acceptable use policies before the Contractor personnel will be accepted as a resource to perform work for the State. The Contractor shall present these documents to the prospective employee before the Contractor presents the individual to the State as a proposed resource. Contractor staff shall comply with all Physical Security procedures in place within the facilities where they are working.

**2.092 Security Breach Notification**

If the Contractor breaches this Section, the Contractor must (i) promptly cure any deficiencies and (ii) comply with any applicable federal and state laws and regulations pertaining to unauthorized disclosures. Contractor and the State will cooperate to mitigate, to the extent practicable, the effects of any breach, intrusion, or unauthorized use or disclosure. Contractor must report to the State in writing any use or disclosure of Confidential Information, whether suspected or actual, other than as provided for by the Contract within 10 days of becoming aware of the use or disclosure or the shorter time period as is reasonable under the circumstances.

**2.093 PCI Data Security Requirements - RESERVED**

**2.100 Confidentiality**

**2.101 Confidentiality**

Contractor and the State each acknowledge that the other possesses and will continue to possess confidential information that has been developed or received by it. As used in this Section, “Confidential Information” of Contractor must mean all non-public proprietary information of Contractor (other than Confidential Information of the State as defined below) which is marked confidential,



restricted, proprietary or with a similar designation. “Confidential Information” of the State must mean any information which is retained in confidence by the State (or otherwise required to be held in confidence by the State under applicable federal, state and local laws and regulations) or which, in the case of tangible materials provided to Contractor by the State under its performance under this Contract, is marked as confidential, proprietary or with a similar designation by the State. “Confidential Information” excludes any information (including this Contract) that is publicly available under the Michigan FOIA.

During the term of this Agreement, the Parties may provide each other with Confidential Information. Each Party will: maintain the confidentiality of the other Party’s Confidential Information and not disclose it to any third party, except as authorized by the disclosing Party in writing or as required by a court of competent jurisdiction; restrict disclosure of the Confidential Information to its employees who have a “need to know” and not copy or reproduce the Confidential Information; take necessary and appropriate precautions to guard the confidentiality of the Confidential Information, including informing its employees who handle the Confidential Information that it is confidential and is not to be disclosed to others, but these precautions will be at least the same degree of care that the receiving Party applies to its own confidential information and will not be less than reasonable care; and use the such Confidential Information only in furtherance of the performance of this Agreement. Confidential Information is and will at all times remain the property of the disclosing Party, and no grant of any proprietary rights in the Confidential Information is given or intended, including any express or implied license, other than the limited right of the recipient to use the Confidential Information in the manner and to the extent permitted by this Agreement.

**2.102 Protection and Destruction of Confidential Information**

The State and Contractor will each use at least the same degree of care to prevent disclosing to third parties the Confidential Information of the other as it employs to avoid unauthorized disclosure, publication or dissemination of its own confidential information of like character, but in no event less than reasonable care. Neither Contractor nor the State will (i) make any use of the Confidential Information of the other except as contemplated by this Contract, (ii) acquire any right in or assert any lien against the Confidential Information of the other, or (iii) if requested to do so, refuse for any reason to promptly return the other party's Confidential Information to the other party. Each party will limit disclosure of the other party’s Confidential Information to employees and Subcontractors who must have access to fulfill the purposes of this Contract. Disclosure to, and use by, a Subcontractor is permissible where (A) use of a Subcontractor is authorized under this Contract, (B) the disclosure is necessary or otherwise naturally occurs in connection with work that is within the Subcontractor's scope of responsibility, and (C) Contractor obligates the Subcontractor in a written Contract to maintain the State’s Confidential Information in confidence. At the State's request, any employee of Contractor and of any Subcontractor having access or continued access to the State’s Confidential Information may be required to execute an acknowledgment that the employee has been advised of Contractor’s and the Subcontractor’s obligations under this Section and of the employee's obligation to Contractor or Subcontractor, as the case may be, to protect the Confidential Information from unauthorized use or disclosure.

Promptly upon termination or cancellation of the Contract for any reason, Contractor must certify to the State that Contractor has destroyed all State Confidential Information.

**2.103 Exclusions**

Notwithstanding the foregoing, the provisions of **Section 2.100** will not apply to any particular information which the State or Contractor can demonstrate (i) was, at the time of disclosure to it, in the public domain; (ii) after disclosure to it, is published or otherwise becomes part of the public domain through no fault of the receiving party; (iii) was in the possession of the receiving party at the time of disclosure to it without an obligation of confidentiality; (iv) was received after disclosure to it from a third party who had a lawful right to disclose the information to it without any obligation to restrict its further disclosure; or (v) was independently developed by the receiving party without reference to Confidential



Information of the furnishing party. Further, the provisions of **Section 2.100** will not apply to any particular Confidential Information to the extent the receiving party is required by law to disclose the Confidential Information, provided that the receiving party (i) promptly provides the furnishing party with notice of the legal request, and (ii) assists the furnishing party in resisting or limiting the scope of the disclosure as reasonably requested by the furnishing party.

**2.104 No Implied Rights**

Nothing contained in this Section must be construed as obligating a party to disclose any particular Confidential Information to the other party, or as granting to or conferring on a party, expressly or impliedly, any right or license to the Confidential Information of the other party.

**2.105 Respective Obligations**

The parties' respective obligations under this Section must survive the termination or expiration of this Contract for any reason.

**2.110 Records and Inspections**

**2.111 Inspection of Work Performed**

The State's authorized representatives must at all reasonable times and with 15 days prior written request, have the right to enter Contractor's premises, or any other places, where the Services are being performed, and must have access, upon reasonable request, to interim drafts of Deliverables or work-in-progress. Upon 10 Days prior written notice and at all reasonable times, the State's representatives must be allowed to inspect, monitor, or otherwise evaluate the work being performed and to the extent that the access will not reasonably interfere or jeopardize the safety or operation of the systems or facilities. Contractor must provide all reasonable facilities and assistance for the State's representatives.

Contractor acknowledges the State's right to inspect materials, equipment and workmanship at Contractor's manufacturing or staging facilities for the limited purpose of evaluating Contractor's performance of this Agreement. The State must provide Contractor fifteen (15) days written notice prior to the inspection of any facility and will be responsible for its own costs associated with such inspection(s). Contractor will restrict inspection of its facilities to normal business hours, to areas that are relevant to the performance of the Agreement, and to areas which Contractor does not consider confidential or proprietary in nature. A Contractor representative must accompany the State's employees at all times.

**2.112 Examination of Records**

For seven years after the Contractor provides any work under this Contract (the "Audit Period"), the State may examine and copy any of Contractor's books, records, documents and papers pertinent to establishing Contractor's compliance with the Contract and with applicable laws and rules. The State must notify the Contractor 20 days before examining the Contractor's books and records. The State does not have the right to review any information deemed confidential by the Contractor to the extent access would require the confidential information to become publicly available. This provision also applies to the books, records, accounts, documents and papers, in print or electronic form, of any parent, affiliated or subsidiary organization of Contractor, or any Subcontractor of Contractor performing services in connection with the Contract.

In no event shall Contractor be obligated to create or maintain documents or records not kept in the ordinary course of Contractor's business, nor shall Contractor be obligated to disclose any information it deems confidential or proprietary, including but not limited to cost data and employee records.



**2.113 Retention of Records**

Contractor must maintain at least until the end of the Audit Period all pertinent financial and accounting records (including time sheets and payroll records, and information pertaining to the Contract and to the Services, equipment, and commodities provided under the Contract) pertaining to the Contract according to generally accepted accounting principles and other procedures specified in this Section. Financial and accounting records must be made available, upon request, to the State at any time during the Audit Period. If an audit, litigation, or other action involving Contractor's records is initiated before the end of the Audit Period, the records must be retained until all issues arising out of the audit, litigation, or other action are resolved or until the end of the Audit Period, whichever is later.

**2.114 Audit Resolution**

If necessary, the Contractor and the State will meet to review each audit report promptly after issuance. The Contractor will respond to each audit report in writing within 30 days from receipt of the report, unless a shorter response time is specified in the report. The Contractor and the State must develop, agree upon and monitor an action plan to promptly address and resolve any deficiencies, concerns, and/or recommendations in the audit report.

**2.115 Errors**

- (a) If the audit demonstrates any errors in the documents provided to the State, then the amount in error must be reflected as a credit or debit on the next invoice and in subsequent invoices until the amount is paid or refunded in full. However, a credit or debit may not be carried for more than four invoices. If a balance remains after four invoices, then the remaining amount will be due as a payment or refund within 45 days of the last quarterly invoice that the balance appeared on or termination of the contract, whichever is earlier.
- (b) In addition to other available remedies, the difference between the payment received and the correct payment amount is greater than 10%, then the Contractor must pay all of the reasonable costs of the audit.

**2.120 Warranties**

**2.121 Warranties and Representations**

The Contractor represents and warrants:

- (a) It is capable in all respects of fulfilling and must fulfill all of its obligations under this Contract. The performance of all obligations under this Contract must be provided in a timely, professional, and workman-like manner and must meet the performance and operational standards required under this Contract.
- (b) The Contract Appendices, Attachments and Exhibits identify the equipment and software and services necessary for the Deliverable(s) to perform and Services to operate in compliance with the Contract's requirements and other standards of performance.
- (c) It is the lawful owner or licensee of any Deliverable licensed or sold to the State by Contractor or developed by Contractor under this Contract, and Contractor has all of the rights necessary to convey to the State the ownership rights or licensed use, as applicable, of any and all Deliverables.
- (d) If, under this Contract, Contractor procures any equipment, software or other Deliverable for the State (including equipment, software and other Deliverables manufactured, re-marketed or otherwise sold by Contractor under Contractor's name), then in addition to Contractor's other responsibilities with respect to the items in this Contract, Contractor must assign or otherwise transfer to the State or its designees, or afford the State the benefits of, any manufacturer's warranty for the Deliverable.
- (e) The contract signatory has the power and authority, including any necessary corporate authorizations, necessary to enter into this Contract, on behalf of Contractor.



- (f) It is qualified and registered to transact business in all locations where required.
- (g) Neither the Contractor nor any Affiliates, nor any employee of either, has, must have, or must acquire, any contractual, financial, business, or other interest, direct or indirect, that would conflict in any manner or degree with Contractor's performance of its duties and responsibilities to the State under this Contract or otherwise create an appearance of impropriety with respect to the award or performance of this Agreement. Contractor must notify the State about the nature of the conflict or appearance of impropriety within two days of learning about it.
- (h) Neither Contractor nor any Affiliates, nor any employee of either has accepted or must accept anything of value based on an understanding that the actions of the Contractor or Affiliates or employee on behalf of the State would be influenced. Contractor must not attempt to influence any State employee by the direct or indirect offer of anything of value.
- (i) Neither Contractor nor any Affiliates, nor any employee of either has paid or agreed to pay any person, other than bona fide employees and consultants working solely for Contractor or the Affiliate, any fee, commission, percentage, brokerage fee, gift, or any other consideration, contingent upon or resulting from the award or making of this Contract.
- (j) The prices proposed by Contractor were arrived at independently, without consultation, communication, or agreement with any other bidder for the purpose of restricting competition; the prices quoted were not knowingly disclosed by Contractor to any other bidder; and no attempt was made by Contractor to induce any other person to submit or not submit a proposal for the purpose of restricting competition.
- (k) All financial statements, reports, and other information furnished by Contractor to the State as part of its response to the RFP or otherwise in connection with the award of this Contract fairly and accurately represent the business, properties, financial condition, and results of operations of Contractor as of the respective dates, or for the respective periods, covered by the financial statements, reports, other information. Since the respective dates or periods covered by the financial statements, reports, or other information, there have been no material adverse change in the business, properties, financial condition, or results of operations of Contractor.
- (l) All written information furnished to the State by or for the Contractor in connection with this Contract, including its bid, is true, accurate, and complete, and contains no untrue statement of material fact or omits any material fact necessary to make the information not misleading.
- (m) It is not in material default or breach of any other contract or agreement that it may have with the State or any of its departments, commissions, boards, or agencies. Contractor further represents and warrants that it has not been a party to any contract with the State or any of its departments that was terminated by the State or the department within the previous five years for the reason that Contractor failed to perform or otherwise breached an obligation of the contract.
- (n) If any of the certifications, representations, or disclosures made in the Contractor's original bid response change after contract award, the Contractor is required to report those changes immediately to the Department of Management and Budget, Purchasing Operations.

**2.122 Warranty of Merchantability**

Goods provided by Contractor under this agreement shall be merchantable. All goods provided under this Contract shall be of good quality within the description given by the State, shall be fit for their ordinary purpose, shall be adequately contained and packaged within the description given by the State, shall conform to the agreed upon specifications, and shall conform to the affirmations of fact made by the Contractor or on the container or label. Contractor represents and warrants that the equipment shall be fit for use for the purpose of commercial and public safety two-way radio communications.



**2.123 Warranty of Fitness for a Particular Purpose**

When the Contractor has reason to know or knows any particular purpose for which the goods are required, and the State is relying on the Contractor’s skill or judgment to select or furnish suitable goods, there is a warranty that the goods are fit for such purpose. Contractor represents and warrants that the equipment shall be fit for use for the purpose of commercial and public safety two-way radio communications.

**2.124 Warranty of Title**

Contractor shall, in providing goods to the State, convey good title in those goods, whose transfer is right and lawful. All goods provided by Contractor shall be delivered free from any security interest, lien, or encumbrance of which the State, at the time of contracting, has no knowledge. Goods provided by Contractor, under this Contract, shall be delivered free of any rightful claim of any third person by of infringement or the like.

**2.125 Equipment Warranty**

See Article 1, Section 1.022 (A.4)

**2.126 Equipment to be New**

If applicable, all equipment provided under this Contract by Contractor shall be new where Contractor has knowledge regarding whether the equipment is new or assembled from new or serviceable used parts that are like new in performance or has the option of selecting one or the other. Equipment that is assembled from new or serviceable used parts that are like new in performance is acceptable where Contractor does not have knowledge or the ability to select one or other, unless specifically agreed otherwise in writing by the State.

**2.127 Prohibited Products**

The State will not accept salvage, distressed, outdated or discontinued merchandise. Shipping of such merchandise to any State agency, as a result of an order placed against the Contract, shall be considered default by the Contractor of the terms and conditions of the Contract and may result in cancellation of the Contract by the State. The brand and product number offered for all items shall remain consistent for the term of the Contract, unless Purchasing Operations has approved a change order pursuant to **Section 2.024**.

**2.128 Consequences For Breach**

In addition to any remedies available in law, if the Contractor breaches any of the warranties contained in this section, the breach may be considered as a default in the performance of a material obligation of this Contract.

**2.130 Insurance**

**2.131 LIABILITY INSURANCE**

The Contractor must provide proof of the minimum levels of insurance coverage as indicated below. The insurance must protect the State from claims that may arise out of or result from the Contractor’s performance of services under the terms of this Contract, whether the services are performed by the Contractor, or by any subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable.

The Contractor waives all rights against the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees and agents for recovery of damages to the extent these damages are covered by the insurance policies the Contractor is required to maintain under this Contract.



All insurance coverage provided relative to this Contract/Purchase Order is PRIMARY and NON-CONTRIBUTING to any comparable liability insurance (including self-insurances) carried by the State.

The insurance must be written for not less than any minimum coverage specified in this Contract or required by law, whichever is greater.

The insurers selected by Contractor must have an A.M. Best rating of A or better, or as otherwise approved in writing by the State, or if the ratings are no longer available, with a comparable rating from a recognized insurance rating agency. All policies of insurance required in this Contract must be issued by companies that have been approved to do business in the State.

See [www.michigan.gov/dleg](http://www.michigan.gov/dleg).

Where specific limits are shown, they are the minimum acceptable limits. If Contractor's policy contains higher limits, the State must be entitled to coverage to the extent of the higher limits.

The Contractor is required to pay for and provide the type and amount of insurance checked  below:

- 1. Commercial General Liability with the following minimum coverage:  
 \$2,000,000 General Aggregate Limit including Products/Completed Operations  
 \$1,000,000 Personal & Advertising Injury Limit  
 \$1,000,000 Each Occurrence Limit

The Contractor must list the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees and agents as ADDITIONAL INSURED on the Commercial General Liability certificate. The Contractor also agrees to provide evidence that insurance policies contain a waiver of subrogation by the insurance company.

- 2. If a motor vehicle is used to provide services or products under this Contract, the Contractor must have vehicle liability insurance on any auto including owned, hired and non-owned vehicles used in Contractor's business for bodily injury and property damage as required by law.

The Contractor also agrees to provide evidence that insurance policies contain a waiver of subrogation by the insurance company.

- 3. Workers' compensation coverage must be provided according to applicable laws governing the employees and employers work activities in the state of the Contractor's domicile. If a self-insurer provides the applicable coverage, proof must be provided of approved self-insured authority by the jurisdiction of domicile. For employees working outside of the state of qualification, Contractor must provide appropriate certificates of insurance proving mandated coverage levels for the jurisdictions where the employees' activities occur.

The Contractor also agrees to provide evidence that insurance policies contain a waiver of subrogation by the insurance company. This provision must not be applicable where prohibited or limited by the laws of the jurisdiction in which the work is to be performed.



- ☑ 4. Employers liability insurance with the following minimum limits:  
 \$100,000 each accident  
 \$100,000 each employee by disease  
 \$500,000 aggregate disease

**2.132 SUBCONTRACTOR INSURANCE COVERAGE**

Except where the State has approved in writing a Contractor subcontract with other insurance provisions, Contractor must require all of its Subcontractors under this Contract to purchase and maintain similar insurance coverage as described in this Section for the Contractor in connection with the performance of work by those Subcontractors.

**2.133 CERTIFICATES OF INSURANCE AND OTHER REQUIREMENTS**

Contractor must furnish to DMB Purchasing Operations, certificate(s) of insurance verifying insurance coverage or providing satisfactory evidence of self-insurance as required in this Section (the "Certificates"). The Certificate must be on the standard "accord" form or equivalent. **The Contract Number or the Purchase Order Number must be shown on the Certificate Of Insurance To Assure Correct Filing.** All Certificate(s) are to be prepared and submitted by the Insurance Agent. All Certificate(s) must contain a provision indicating that coverage afforded under the policies WILL NOT BE CANCELLED, MATERIALLY CHANGED, OR NOT RENEWED without 30 days prior written notice, except for 10 days for non-payment of premium, having been given to the Director of Purchasing Operations, Department of Management and Budget. The notice must include the Contract or Purchase Order number affected. Before the Contract is signed, and upon the insurance expiration date every year thereafter, the Contractor must provide evidence that the State and its agents, officers and employees are listed as additional insured under each commercial general liability policy. In the event the State approves the representation of the State by the insurer's attorney, the attorney may be required to be designated as a Special Assistant Attorney General by the Attorney General of the State of Michigan.

The Contractor must maintain all required insurance coverage throughout the term of the Contract and any extensions and, in the case of claims-made Commercial General Liability policies, must secure tail coverage for at least three years following the expiration or termination for any reason of this Contract. The minimum limits of coverage specified above are not intended, and must not be construed; to limit any liability or indemnity of Contractor under this Contract to any indemnified party or other persons. Contractor is responsible for all deductibles with regard to the insurance. If the Contractor fails to pay any premium for required insurance as specified in this Contract, or if any insurer cancels or significantly reduces any required insurance as specified in this Contract without the State's written consent, then the State may, after the State has given the Contractor at least 30 days written notice, pay the premium or procure similar insurance coverage from another company or companies. The State may deduct any part of the cost from any payment due the Contractor, or the Contractor must pay that cost upon demand by the State.

**2.140 Indemnification**

**2.141 General Indemnification**

To the extent permitted by law, the Contractor must indemnify, defend and hold harmless the State from liability, including all claims and losses, and all related costs and expenses (including reasonable attorneys' fees and costs of investigation, litigation, settlement, judgments, interest and penalties), accruing or resulting to any person, firm or corporation that may be injured or damaged by the Contractor in the performance of this Contract and that are attributable to the negligence or tortious acts of the Contractor or any of its subcontractors, or by anyone else for whose acts any of them may be liable.

**2.142 RESERVED - Code Indemnification**



**2.143 Employee Indemnification**

In any claims against the State of Michigan, its departments, divisions, agencies, sections, commissions, officers, employees and agents, by any employee of the Contractor or any of its subcontractors, the indemnification obligation under the Contract must not be limited in any way by the amount or type of damages, compensation or benefits payable by or for the Contractor or any of its subcontractors under worker’s disability compensation acts, disability benefit acts or other employee benefit acts. This indemnification clause is intended to be comprehensive. Any overlap in provisions, or the fact that greater specificity is provided as to some categories of risk, is not intended to limit the scope of indemnification under any other provisions.

**2.144 Patent/Copyright Infringement Indemnification**

To the extent permitted by law, the Contractor must indemnify, defend and hold harmless the State from and against all losses, liabilities, damages (including taxes), and all related costs and expenses (including reasonable attorneys’ fees and costs of investigation, litigation, settlement, judgments, interest and penalties) incurred in connection with any action or proceeding threatened or brought against the State to the extent that the action or proceeding is based on a claim that any piece of equipment, software, commodity or service manufactured by the Contractor, or the operation of the equipment, software, commodity or service, or the use or reproduction of any documentation provided with the equipment, software, commodity or service infringes any United States patent, copyright, or trademark of any person or entity, which is enforceable under the laws of the United States.

In addition, should the equipment, software, commodity, or service, or its operation, become or in the State’s or Contractor’s opinion be likely to become the subject of a claim of infringement, the Contractor must at the Contractor’s sole expense (i) procure for the State the right to continue using the equipment, software, commodity or service or, if the option is not reasonably available to the Contractor, (ii) replace or modify to the State’s satisfaction the same with equipment, software, commodity or service of equivalent function and performance so that it becomes non-infringing, or, if the option is not reasonably available to Contractor, (iii) accept its return by the State with appropriate credits to the State against the Contractor’s charges and reimburse the State for any losses or costs incurred as a consequence of the State ceasing its use and returning it.

Notwithstanding the foregoing, the Contractor has no obligation to indemnify or defend the State for, or to pay any costs, damages or attorneys’ fees related to, any claim based upon (i) equipment developed based on written specifications of the State; (ii) use of the equipment in a configuration other than implemented or approved in writing by the Contractor, including, but not limited to, any modification of the equipment by the State; or (iii) the combination, operation, or use of the equipment with equipment or software not supplied by the Contractor under this Contract.

**2.145 Continuation of Indemnification Obligations**

The Contractor’s duty to indemnify under this Section continues in full force and effect, notwithstanding the expiration or early cancellation of the Contract, with respect to any claims based on facts or conditions that occurred before expiration or cancellation.

**2.146 Indemnification Procedures**

The procedures set forth below must apply to all indemnity obligations under this Contract.

After receipt by the State of notice of the action or proceeding involving a claim in respect of which it will seek indemnification, the State shall promptly notify Contractor of such claim in writing and take or assist Contractor in taking, as the case may be, any reasonable action to avoid the imposition of a default judgment against Contractor. No failure to notify Contractor shall relieve Contractor of its indemnification obligations except to the extent that Contractor can demonstrate damages attributable to such failure. Within ten (10) days following receipt of written notice from the State relating to any claim, Contractor shall notify the State in writing whether Contractor agrees to assume control of the defense and settlement of that claim (a “Notice of Election”). After notifying Contractor of a claim and prior to the State receiving Contractor’s Notice of Election, the State shall be entitled to defend against



the claim, at Contractor's expense, and Contractor will be responsible for any reasonable costs incurred by the State in defending against the claim during such period.

**2.150 Termination/Cancellation**

**2.151 Notice and Right to Cure**

If the Contractor breaches the contract, and the State in its sole discretion determines that the breach is curable, then the State will provide the Contractor with written notice of the breach and a time period (not less than 30 days) to cure the Breach. The notice of breach and opportunity to cure is inapplicable for successive or repeated breaches or if the State determines in its sole discretion that the breach poses a serious and imminent threat to the health or safety of any person or the imminent loss, damage, or destruction of any real or tangible personal property.

**2.152 Termination for Cause**

- (a) The State may terminate this contract, for cause, by notifying the Contractor in writing, if the Contractor (i) breaches any of its material duties or obligations under this Contract (including a Chronic Failure to meet any particular SLA), or (ii) fails to cure a breach within the time period specified in the written notice of breach provided by the State
  
- (b) If this Contract is terminated for cause, the Contractor must pay all costs incurred by the State in terminating this Contract, including but not limited to, State administrative costs, reasonable attorneys' fees and court costs, and any reasonable additional costs the State may incur to procure the Services/Deliverables required by this Contract from other sources. Re-procurement costs are not consequential, indirect or incidental damages, and cannot be excluded by any other terms otherwise included in this Contract, provided the costs are not in excess of 50% more than the prices for the Service/Deliverables provided under this Contract.
  
- (c) If the State chooses to partially terminate this Contract for cause, charges payable under this Contract will be equitably adjusted to reflect those Services/Deliverables that are terminated and the State must pay for all Services/Deliverables for which Final Acceptance has been granted provided up to the termination date. Services and related provisions of this Contract that are terminated for cause must cease on the effective date of the termination.
  
- (d) If the State terminates this Contract for cause under this Section, and it is determined, for any reason, that Contractor was not in breach of contract under the provisions of this section, that termination for cause must be deemed to have been a termination for convenience, effective as of the same date, and the rights and obligations of the parties must be limited to that otherwise provided in this Contract for a termination for convenience.

**2.153 Termination for Convenience**

The State may terminate this Contract for its convenience, in whole or part, if the State determines that a termination is in the State's best interest. Reasons for the termination must be left to the sole discretion of the State and may include, but not necessarily be limited to (a) the State no longer needs the Services or products specified in the Contract, (b) relocation of office, program changes, changes in laws, rules, or regulations make implementation of the Services no longer practical or feasible, (c) unacceptable prices for Additional Services or New Work requested by the State, or (d) falsification or misrepresentation, by inclusion or non-inclusion, of information material to a response to any RFP issued by the State. The State may terminate this Contract for its convenience, in whole or in part, by giving Contractor written notice at least 30 days before the date of termination. If the State chooses to terminate this Contract in part, the charges payable under this Contract must be equitably adjusted to reflect those Services/Deliverables that are terminated. Services and related provisions of this Contract that are terminated for cause must cease on the effective date of the termination.



**2.154 Termination for Non-Appropriation**

- (a) Contractor acknowledges that, if this Contract extends for several fiscal years, continuation of this Contract is subject to appropriation or availability of funds for this Contract. If funds to enable the State to effect continued payment under this Contract are not appropriated or otherwise made available, the State must terminate this Contract and all affected Statements of Work, in whole or in part, at the end of the last period for which funds have been appropriated or otherwise made available by giving written notice of termination to Contractor. The State must give Contractor at least 30 days advance written notice of termination for non-appropriation or unavailability (or the time as is available if the State receives notice of the final decision less than 30 days before the funding cutoff).
  
- (b) If funding for the Contract is reduced by law, or funds to pay Contractor for the agreed-to level of the Services or production of Deliverables to be provided by Contractor are not appropriated or otherwise unavailable, the State may, upon 30 days written notice to Contractor, reduce the level of the Services or the change the production of Deliverables in the manner and for the periods of time as the State may elect. The charges payable under this Contract will be equitably adjusted to reflect any equipment, services or commodities not provided by reason of the reduction.
  
- (c) If the State terminates this Contract, eliminates certain Deliverables, or reduces the level of Services to be provided by Contractor under this Section, the State must pay Contractor for all Work-in-Process performed through the effective date of the termination or reduction in level, as the case may be and as determined by the State, to the extent funds are available. This Section will not preclude Contractor from reducing or stopping Services/Deliverables or raising against the State in a court of competent jurisdiction, any claim for a shortfall in payment for Services performed or Deliverables finally accepted before the effective date of termination.

**2.155 Termination for Criminal Conviction**

The State may terminate this Contract immediately and without further liability or penalty in the event Contractor, an officer of Contractor, or an owner of a 25% or greater share of Contractor is convicted of a criminal offense related to a State, public or private Contract or subcontract.

**2.156 Termination for Approvals Rescinded**

The State may terminate this Contract if any final administrative or judicial decision or adjudication disapproves a previously approved request for purchase of personal services under Constitution 1963, Article 11, § 5, and Civil Service Rule 7-1. In that case, the State will pay the Contractor for only the work completed to that point under the Contract. Termination may be in whole or in part and may be immediate as of the date of the written notice to Contractor or may be effective as of the date stated in the written notice.

**2.157 Rights and Obligations upon Termination**

- (a) If the State terminates this Contract for any reason, the Contractor must (a) stop all work as specified in the notice of termination, (b) take any action that may be necessary, or that the State may direct, for preservation and protection of Deliverables or other property derived or resulting from this Contract that may be in Contractor's possession, (c) return all materials and property provided directly or indirectly to Contractor by any entity, agent or employee of the State, (d) transfer title in, and deliver to, the State, unless otherwise directed, all Deliverables intended to be transferred to the State at the termination of the Contract and which are resulting from the Contract (which must be provided to the State on an "As-Is" basis except to the extent the amounts paid by the State in respect of the items included compensation to Contractor for the provision of warranty services in respect of the materials), and (e) take any action to mitigate and limit any potential damages, or requests for Contractor adjustment or termination settlement costs, to the maximum practical extent, including terminating or limiting as otherwise applicable those subcontracts and outstanding orders for material and supplies resulting from the terminated Contract.
  
- (b) If the State terminates this Contract before its expiration for its own convenience, the State must pay Contractor for all charges due for Services provided before the date of termination and, if



applicable, as a separate item of payment under this Contract, for Work In Process, on a percentage of completion basis at the level of completion determined by the State. All completed or partially completed Deliverables prepared by Contractor under this Contract, at the option of the State, becomes the State's property, and Contractor is entitled to receive equitable fair compensation for the Deliverables. Regardless of the basis for the termination, the State is not obligated to pay, or otherwise compensate, Contractor for any lost expected future profits, costs or expenses incurred with respect to Services not actually performed for the State.

(c) Upon a good faith termination, the State may assume, at its option, any subcontracts and agreements for services and deliverables provided under this Contract, and may further pursue completion of the Services/Deliverables under this Contract by replacement contract or otherwise as the State may in its sole judgment deem expedient.

**2.158 Reservation of Rights**

Any termination of this Contract or any Statement of Work issued under it by a party must be with full reservation of, and without prejudice to, any rights or remedies otherwise available to the party with respect to any claims arising before or as a result of the termination.

**2.160 Termination by Contractor**

**2.161 Termination by Contractor**

If the State breaches the Contract, and the Contractor in its sole discretion determines that the breach is curable, then the Contractor will provide the State with written notice of the breach and a time period (not less than 30 days) to cure the breach. The Notice of Breach and opportunity to cure is inapplicable for successive and repeated breaches.

The Contractor may terminate this Contract if the State (i) materially breaches its obligation to pay the Contractor undisputed amounts due and owing under this Contract, (ii) breaches its other obligations under this Contract to an extent that makes it impossible or commercially impractical for the Contractor to perform the Services, or (iii) does not cure the breach within the time period specified in a written notice of breach. But the Contractor must discharge its obligations under **Section 2.160** before it terminates the Contract.

**2.170 Transition Responsibilities**

**2.171 Contractor Transition Responsibilities**

If the State terminates this contract, for convenience or cause, or if the Contract is otherwise dissolved, voided, rescinded, nullified, expires or rendered unenforceable, the Contractor agrees to comply with direction provided by the State to assist in the orderly transition of equipment, services, software, leases, etc. to the State or a third party designated by the State. If this Contract expires or terminates, the Contractor agrees to make all reasonable efforts to effect an orderly transition of services within a reasonable period of time that in no event will exceed 60 days. These efforts must include, but are not limited to, those listed in **Sections 2.141, 2.142, 2.143, 2.144, and 2.145.**

**2.172 Contractor Personnel Transition**

The Contractor must work with the State, or a specified third party, to develop a transition plan setting forth the specific tasks and schedule to be accomplished by the parties, to effect an orderly transition. The Contractor must allow as many personnel as practicable to remain on the job to help the State, or a specified third party, maintain the continuity and consistency of the services required by this Contract. In addition, during or following the transition period, in the event the State requires the Services of the Contractor's subcontractors or vendors, as necessary to meet its needs, Contractor agrees to reasonably, and with good-faith, work with the State to use the Services of Contractor's subcontractors



or vendors. Contractor will notify all of Contractor's subcontractors of procedures to be followed during transition.

**2.173 Contractor Information Transition**

The Contractor agrees to provide reasonable detailed specifications for all Services/Deliverables needed by the State, or specified third party, to properly provide the Services/Deliverables required under this Contract. The Contractor will provide the State with asset management data generated from the inception of this Contract through the date on which this Contractor is terminated in a comma-delimited format unless otherwise requested by the State. The Contractor will deliver to the State any remaining owed reports and documentation still in Contractor's possession subject to appropriate payment by the State.

**2.174 Contractor Software Transition**

The Contractor must reasonably assist the State in the acquisition of any Contractor software required to perform the Services/use the Deliverables under this Contract. This must include any documentation being used by the Contractor to perform the Services under this Contract. If the State transfers any software licenses to the Contractor, those licenses must, upon expiration of the Contract, transfer back to the State at their current revision level. Upon notification by the State, Contractor may be required to freeze all non-critical changes to Deliverables/Services.

Any Vertex Software, including subsequent releases, is licensed to Customer solely in accordance with the Software License Agreement (Attachment B). Customer hereby accepts and agrees to abide by all of the terms and restrictions of the Software License Agreement.

The State will not transfer the Software or Documentation to any third party without Vertex Standard's prior written consent. Vertex Standard's consent may be withheld at its discretion and may be conditioned upon transferee paying all applicable license fees and agreeing to be bound by this Agreement. If the Designated Products are Vertex Standard's radio products and the State transfers ownership of the Vertex Standard radio products to a third party, the State may assign its right to use the Software which is embedded in or furnished for use with the radio products and the related Documentation; provided that the State transfers all copies of the Software and Documentation to the transferee, and the State and the transferee sign a transfer form to be provided by Vertex Standard upon request, obligating the transferee to be bound by this Agreement.

**2.175 Transition Payments**

If the transition results from a termination for any reason, reimbursement must be governed by the termination provisions of this Contract. If the transition results from expiration, the Contractor will be reimbursed for all reasonable transition costs (i.e. costs incurred within the agreed period after contract expiration that result from transition operations) at the rates agreed upon by the State. The Contractor will prepare an accurate accounting from which the State and Contractor may reconcile all outstanding accounts.

**2.176 State Transition Responsibilities**

In the event that this Contract is terminated, dissolved, voided, rescinded, nullified, or otherwise rendered unenforceable, the State agrees to perform the following obligations, and any others upon which the State and the Contractor agree:

- (a) Reconciling all accounts between the State and the Contractor;
- (b) Completing any pending post-project reviews.

**2.180 Stop Work**

**2.181 Stop Work Orders**

The State may, at any time, by written stop work order to Contractor, require that Contractor stop all, or any part, of the work called for by the Contract for a period of up to 90 calendar days after the stop work



order is delivered to Contractor, and for any further period to which the parties may agree. The stop work order must be identified as a stop work order and must indicate that it is issued under this **Section 2.150**. Upon receipt of the stop work order, Contractor must immediately comply with its terms and take all reasonable steps to minimize incurring costs allocable to the work covered by the stop work order during the period of work stoppage. Within the period of the stop work order, the State must either: (a) cancel the stop work order; or (b) terminate the work covered by the stop work order as provided in **Section 2.130**.

**2.182 Cancellation or Expiration of Stop Work Order**

The Contractor must resume work if the State cancels a Stop Work Order or if it expires. The parties will agree upon an equitable adjustment in the delivery schedule, the Contract price, or both, and the Contract must be modified, in writing, accordingly, if: (a) the stop work order results in an increase in the time required for, or in Contractor's costs properly allocable to, the performance of any part of the Contract; and (b) Contractor asserts its right to an equitable adjustment within 30 calendar days after the end of the period of work stoppage; provided that, if the State decides the facts justify the action, the State may receive and act upon a Contractor proposal submitted at any time before final payment under the Contract. Any adjustment will conform to the requirements of **Section 2.024**.

**2.183 Allowance of Contractor Costs**

If the stop work order is not canceled and the work covered by the stop work order is terminated for reasons other than material breach, the termination must be deemed to be a termination for convenience under **Section 2.130**, and the State will pay reasonable costs resulting from the stop work order in arriving at the termination settlement. For the avoidance of doubt, the State is not be liable to Contractor for loss of profits because of a stop work order issued under this **Section 2.150**.



**2.190 Dispute Resolution**

**2.191 In General**

Any claim, counterclaim, or dispute between the State and Contractor arising out of or relating to the Contract or any Statement of Work must be resolved as follows. For all Contractor claims seeking an increase in the amounts payable to Contractor under the Contract, or the time for Contractor’s performance, Contractor must submit a letter, together with all data supporting the claims, executed by Contractor’s Contract Administrator or the Contract Administrator’s designee certifying that (a) the claim is made in good faith, (b) the amount claimed accurately reflects the adjustments in the amounts payable to Contractor or the time for Contractor’s performance for which Contractor believes the State is liable and covers all costs of every type to which Contractor is entitled from the occurrence of the claimed event, and (c) the claim and the supporting data are current and complete to Contractor’s best knowledge and belief.

**2.192 Informal Dispute Resolution**

- (a) All disputes between the parties must be resolved under the Contract Management procedures in this Contract. If the parties are unable to resolve any disputes after compliance with the processes, the parties must meet with the Director of Purchasing Operations, DMB, or designee, for the purpose of attempting to resolve the dispute without the need for formal legal proceedings, as follows:
  - (i) The representatives of Contractor and the State must meet as often as the parties reasonably deem necessary to gather and furnish to each other all information with respect to the matter in issue which the parties believe to be appropriate and germane in connection with its resolution. The representatives must discuss the problem and negotiate in good faith in an effort to resolve the dispute without the necessity of any formal proceeding.
  - (ii) During the course of negotiations, all reasonable requests made by one party to another for non-privileged information reasonably related to the Contract will be honored in order that each of the parties may be fully advised of the other’s position.
  - (iii) The specific format for the discussions will be left to the discretion of the designated State and Contractor representatives, but may include the preparation of agreed upon statements of fact or written statements of position.
  - (iv) Following the completion of this process within 60 calendar days, the Director of Purchasing Operations, DMB, or designee, must issue a written opinion regarding the issue(s) in dispute within 30 calendar days. The opinion regarding the dispute must be considered the State’s final action and the exhaustion of administrative remedies.
- (b) This Section will not be construed to prevent either party from instituting, and a party is authorized to institute, formal proceedings earlier to avoid the expiration of any applicable limitations period, to preserve a superior position with respect to other creditors, or under **Section 2.193**.
- (c) The State will not mediate disputes between the Contractor and any other entity, except state agencies, concerning responsibility for performance of work under the Contract.

**2.193 Injunctive Relief**

The only circumstance in which disputes between the State and Contractor will not be subject to the provisions of **Section 2.192** is where a party makes a good faith determination that a breach of the terms of the Contract by the other party is the that the damages to the party resulting from the breach will be so immediate, so large or severe and so incapable of adequate redress after the fact that a temporary restraining order or other immediate injunctive relief is the only adequate remedy.

**2.194 Continued Performance**

Each party agrees to continue performing its obligations under the Contract while a dispute is being resolved except to the extent the issue in dispute precludes performance (dispute over payment must not be deemed to preclude performance) and without limiting either party’s right to terminate the Contract as provided in **Section 2.150**, as the case may be.



**2.200 Federal and State Contract Requirements**

**2.201 Nondiscrimination**

In the performance of the Contract, Contractor agrees not to discriminate against any employee or applicant for employment, with respect to his or her hire, tenure, terms, conditions or privileges of employment, or any matter directly or indirectly related to employment, because of race, color, religion, national origin, ancestry, age, sex, height, weight, marital status, physical or mental disability. Contractor further agrees that every subcontract entered into for the performance of this Contract or any purchase order resulting from this Contract will contain a provision requiring non-discrimination in employment, as specified here, binding upon each Subcontractor. This covenant is required under the Elliot Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, et seq., and the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, et seq., and any breach of this provision may be regarded as a material breach of the Contract.

**2.202 Unfair Labor Practices**

Under 1980 PA 278, MCL 423.321, et seq., the State must not award a Contract or subcontract to an employer whose name appears in the current register of employers failing to correct an unfair labor practice compiled under section 2 of the Act. This information is compiled by the United States National Labor Relations Board. A Contractor of the State, in relation to the Contract, must not enter into a contract with a Subcontractor, manufacturer, or supplier whose name appears in this register. Under section 4 of 1980 PA 278, MCL 423.324, the State may void any Contract if, after award of the Contract, the name of Contractor as an employer or the name of the Subcontractor, manufacturer or supplier of Contractor appears in the register.

**2.203 Workplace Safety and Discriminatory Harassment**

In performing Services for the State, the Contractor must comply with the Department of Civil Services Rule 2-20 regarding Workplace Safety and Rule 1-8.3 regarding Discriminatory Harassment. In addition, the Contractor must comply with Civil Service regulations and any applicable agency rules provided to the Contractor. For Civil Service Rules, see <http://www.mi.gov/mdcs/0,1607,7-147-6877---,00.html>.

**2.210 Governing Law**

**2.211 Governing Law**

The Contract must in all respects be governed by, and construed according to, the substantive laws of the State of Michigan without regard to any Michigan choice of law rules that would apply the substantive law of any other jurisdiction to the extent not inconsistent with, or pre-empted by federal law.

**2.212 Compliance with Laws**

Contractor shall comply with all applicable state, federal and local laws and ordinances in providing the Services/Deliverables.

**2.213 Jurisdiction**

Any dispute arising from the Contract must be resolved in the State of Michigan. With respect to any claim between the parties, Contractor consents to venue in Ingham County, Michigan, and irrevocably waives any objections it may have to the jurisdiction on the grounds of lack of personal jurisdiction of the court or the laying of venue of the court or on the basis of forum non conveniens or otherwise. Contractor agrees to appoint agents in the State of Michigan to receive service of process. Contractor's registered agent for service in the State of Michigan shall be as follows:

Vertex Standard USA, Inc.  
 C/O Motorola, Inc.  
 The Corporation Company  
 30600 Telegraph Road, Suite 2345  
 Bingham Farms, MI 48025



**2.220 Limitation of Liability**

**2.221 Limitation of Liability**

Neither the Contractor nor the State is liable to each other, regardless of the form of action, for consequential, incidental, indirect, or special damages. This limitation of liability does not apply to claims for infringement of United States patent, copyright, or trademark; to claims for personal injury or damage to property caused by the gross negligence or willful misconduct of the Contractor; to claims covered by other specific provisions of this Contract calling for liquidated damages; or to court costs or attorney’s fees awarded by a court in addition to damages after litigation based on this Contract. Except for the claims set forth herein, Contractor’s total liability will be limited to the direct damages recoverable under law, but not to exceed the price of the equipment, software, or services with respect to which losses or damages are claimed.

**2.230 Disclosure Responsibilities**

**2.231 Disclosure of Litigation**

(a) Disclosure. Contractor must disclose any material criminal litigation, investigations or proceedings involving the Contractor (and each Subcontractor) or any of its officers or directors or any litigation, investigations or proceedings under the Sarbanes-Oxley Act. In addition, each Contractor (and each Subcontractor) must notify the State of any material civil litigation, arbitration or proceeding which arises during the term of the Contract and extensions, to which Contractor (or, to the extent Contractor is aware, any Subcontractor) is a party, and which involves: (i) disputes that might reasonably be expected to adversely affect the viability or financial stability of Contractor or any Subcontractor; or (ii) a claim or written allegation of fraud against Contractor or, to the extent Contractor is aware, any Subcontractor by a governmental or public entity arising out of their business dealings with governmental or public entities. The Contractor must disclose in writing to the Contract Administrator any litigation, investigation, arbitration or other proceeding (collectively, "Proceeding") within 30 days of its occurrence. Details of settlements which are prevented from disclosure by the terms of the settlement may be annotated. Information provided to the State from Contractor’s publicly filed documents referencing its material litigation will be deemed to satisfy the requirements of this Section.

(b) Assurances. If any Proceeding disclosed to the State under this Section, or of which the State otherwise becomes aware, during the term of this Contract would cause a reasonable party to be concerned about:

- (i) the ability of Contractor (or a Subcontractor) to continue to perform this Contract according to its terms and conditions, or
- (ii) whether Contractor (or a Subcontractor) in performing Services for the State is engaged in conduct which is similar in nature to conduct alleged in the Proceeding, which conduct would constitute a breach of this Contract or a violation of Michigan law, regulations or public policy, then the Contractor must provide the State all reasonable assurances requested by the State to demonstrate that:
  - (a) Contractor and its Subcontractors will be able to continue to perform this Contract and any Statements of Work according to its terms and conditions, and
  - (b) Contractor and its Subcontractors have not and will not engage in conduct in performing the Services which is similar in nature to the conduct alleged in the Proceeding.

(c) Contractor must make the following notifications in writing:

- (1) Within 30 days of Contractor becoming aware that a change in its ownership or officers has occurred, or is certain to occur, or a change that could result in changes in the valuation of its capitalized assets in the accounting records, Contractor must notify DMB Purch-Ops.



- (2) Contractor must also notify DMB Purch-Ops within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership or officers.
- (3) Contractor must also notify DMB Purch-Ops within 30 days whenever changes to company affiliations occur.

**2.232 Call Center Disclosure**

Contractor and/or all subcontractors involved in the performance of this Contract providing call or contact center services to the State must disclose the location of its call or contact center services to inbound callers. Failure to disclose this information is a material breach of this Contract. Contractor's disclosure that the call center operations utilized for performance of work under this Contract shall be located within the United States shall satisfy the disclosure requirement set forth herein.

**2.233 Bankruptcy**

The State may, without prejudice to any other right or remedy, terminate this Contract, in whole or in part, and, at its option, may take possession of the "Work in Process" and finish the Works in Process by whatever appropriate method the State may deem expedient if:

- (a) the Contractor files for protection under the bankruptcy laws;
- (b) an involuntary petition is filed against the Contractor and not removed within 30 days;
- (c) the Contractor becomes insolvent or if a receiver is appointed due to the Contractor's insolvency;
- (d) the Contractor makes a general assignment for the benefit of creditors; or
- (e) the Contractor or its affiliates are unable to provide reasonable assurances that the Contractor or its affiliates can deliver the services under this Contract.

Contractor will fix appropriate notices or labels on the Work in Process to indicate ownership by the State. To the extent reasonably possible, materials and Work in Process must be stored separately from other stock and marked conspicuously with labels indicating ownership by the State.

**2.240 Performance**

**2.241 Time of Performance**

- (a) Contractor must use commercially reasonable efforts to provide the resources necessary to complete all Services and Deliverables according to the time schedules contained in the Statements of Work and other Exhibits governing the work, and with professional quality.
- (b) Without limiting the generality of **Section 2.211(a)**, Contractor must notify the State in a timely manner upon becoming aware of any circumstances that may reasonably be expected to jeopardize the timely and successful completion of any Deliverables/Services on the scheduled due dates in the latest State-approved delivery schedule and must inform the State of the projected actual delivery date.
- (c) If the Contractor believes that a delay in performance by the State has caused or will cause the Contractor to be unable to perform its obligations according to specified Contract time periods, the Contractor must notify the State in a timely manner and must use commercially reasonable efforts to perform its obligations according to the Contract time periods notwithstanding the State's failure. Contractor will not be in default for a delay in performance to the extent the delay is caused by the State.

**2.242 Service Level Agreements (SLA(s))**

- (a) SLA(s) will be completed with the following operational considerations:
  - (i) SLA(s) will not be calculated for individual Incidents where any event of Excusable Failure has been determined; Incident means any interruption in Services.
  - (ii) SLA(s) will not be calculated for individual Incidents where loss of service is planned and where the State has received prior notification or coordination.
  - (iii) SLA(s) will not apply if the applicable Incident could have been prevented through planning proposed by Contractor and not implemented at the request of the State. To invoke



this consideration, complete documentation relevant to the denied planning proposal must be presented to substantiate the proposal.

(iv) Time period measurements will be based on the time Incidents are received by the Contractor and the time that the State receives notification of resolution based on 24x7x365 time period, except that the time period measurement will be suspended based on the following:

1. Time period(s) will not apply where Contractor does not have access to a physical State Location and where access to the State Location is necessary for problem identification and resolution.
2. Time period(s) will not apply where Contractor needs to obtain timely and accurate information or appropriate feedback and is unable to obtain timely and accurate information or appropriate feedback from the State.

(b) Chronic Failure for any Service(s) will be defined as three unscheduled outage(s) or interruption(s) on any individual Service for the same reason or cause or if the same reason or cause was reasonably discoverable in the first instance over a rolling 30 day period. Chronic Failure will result in the State's option to terminate the effected individual Service(s) and procure them from a different vendor for the chronic location(s) with Contractor to pay the difference in charges for up to three additional months. The termination of the Service will not affect any tiered pricing levels.

(c) Root Cause Analysis will be performed on any Business Critical outage(s) or outage(s) on Services when requested by the Contract Administrator. Contractor will provide its analysis within two weeks of outage(s) and provide a recommendation for resolution.

(d) All decimals must be rounded to two decimal places with five and greater rounding up and four and less rounding down unless otherwise specified.

**2.243 RESERVED - Liquidated Damages**

**2.244 Excusable Failure**

Neither party will be liable for any default, damage or delay in the performance of its obligations under the Contract to the extent the default, damage or delay is caused by government regulations or requirements (executive, legislative, judicial, military or otherwise), power failure, electrical surges or current fluctuations, lightning, earthquake, war, water or other forces of nature or acts of God, delays or failures of transportation, equipment shortages, suppliers' failures, or acts or omissions of common carriers, fire; riots, civil disorders; strikes or other labor disputes, embargoes; injunctions (provided the injunction was not issued as a result of any fault or negligence of the party seeking to have its default or delay excused); or any other cause beyond the reasonable control of a party; provided the non-performing party and its Subcontractors are without fault in causing the default or delay, and the default or delay could not have been prevented by reasonable precautions and cannot reasonably be circumvented by the non-performing party through the use of alternate sources, workaround plans or other means, including disaster recovery plans.

If a party does not perform its contractual obligations for any of the reasons listed above, the non-performing party will be excused from any further performance of its affected obligation(s) for as long as the circumstances prevail. But the party must use commercially reasonable efforts to recommence performance whenever and to whatever extent possible without delay. A party must promptly notify the other party in writing immediately after the excusable failure occurs, and also when it abates or ends.

If any of the above-enumerated circumstances substantially prevent, hinder, or delay the Contractor's performance of the Services/provision of Deliverables for more than 10 Business Days, and the State determines that performance is not likely to be resumed within a period of time that is satisfactory to the State in its reasonable discretion, then at the State's option: (a) the State may procure the affected Services/Deliverables from an alternate source, and the State is not be liable for payment for the unperformed Services/ Deliverables not provided under the Contract for so long as the delay in performance continues; (b) the State may terminate any portion of the Contract so affected and the charges payable will be equitably adjusted to reflect those Services/Deliverables terminated; or (c) the State may terminate the affected Statement of Work without liability to Contractor as of a date specified



by the State in a written notice of termination to the Contractor, except to the extent that the State must pay for Services/Deliverables provided through the date of termination.

The Contractor will not have the right to any additional payments from the State as a result of any Excusable Failure occurrence or to payments for Services not rendered/Deliverables not provided as a result of the Excusable Failure condition. Defaults or delays in performance by Contractor which are caused by acts or omissions of its Subcontractors will not relieve Contractor of its obligations under the Contract except to the extent that a Subcontractor is itself subject to an Excusable Failure condition described above and Contractor cannot reasonably circumvent the effect of the Subcontractor's default or delay in performance through the use of alternate sources, workaround plans or other means.

**2.250 Approval of Deliverables**

See Article 1, Section 1.051 (Criteria) for additional detail.

**2.251 Delivery Responsibilities**

Unless otherwise specified by the State within an individual order, the following must be applicable to all orders issued under this Contract.

- (a) Shipment responsibilities - Services performed/Deliverables provided under this Contract must be delivered "FOB Destination, within Government Premises." The Contractor must have complete responsibility for providing all Services/Deliverables to all site(s) unless otherwise stated. Actual delivery dates will be specified on the individual purchase order.
- (b) Delivery locations - Services will be performed/Deliverables will be provided at every State of Michigan location within Michigan unless otherwise stated in the SOW. Specific locations will be provided by the State or upon issuance of individual purchase orders.
- (c) Damage Disputes - At the time of delivery to State Locations, the State must examine all packages. The quantity of packages delivered must be recorded and any obvious visible or suspected damage must be noted at time of delivery using the shipper's delivery document(s) and appropriate procedures to record the damage.

Where there is no obvious or suspected damage, all deliveries to a State Location must be opened by the State and the contents inspected for possible internal damage not visible externally within 14 days of receipt. Any damage must be reported to the Contractor within five days of inspection.

**2.252 Delivery of Deliverables**

Where applicable, the Statements of Work/POs contain lists of the Deliverables to be prepared and delivered by Contractor including, for each Deliverable, the scheduled delivery date and a designation of whether the Deliverable is a document ("Written Deliverable"), a good ("Physical Deliverable") or a Service. All Deliverables must be completed and delivered for State review and written approval and, where applicable, installed according to the State-approved delivery schedule and any other applicable terms and conditions of the Contract.

**2.253 Testing**

- (a) Before delivering any of the above-mentioned Statement of Work Physical Deliverables or Services to the State, Contractor will first perform all required quality assurance activities to verify that the Physical Deliverable or Service is complete and conforms with its specifications listed in the applicable Statement of Work or Purchase Order. Before delivering a Physical Deliverable or Service to the State, Contractor must certify to the State that (1) it has performed the quality assurance activities, (2) it has performed any applicable testing, (3) it has corrected all material deficiencies discovered during the quality assurance activities and testing, (4) the Deliverable or Service is in a suitable state of readiness for the State's review and approval, and (5) the Deliverable/Service has all Critical Security patches/updates applied.
- (b) If a Deliverable includes installation at a State Location, then Contractor must (1) perform any applicable testing, (2) correct all material deficiencies discovered during the quality assurance activities and testing, and (3) inform the State that the Deliverable is in a suitable state of readiness for the



State's review and approval. To the extent that testing occurs at State Locations, the State is entitled to observe or otherwise participate in testing.



**2.254 Approval of Deliverables, In General**

- (a) All Deliverables (Physical Deliverables and Written Deliverables) and Services require formal written approval by the State, according to the following procedures. Formal approval by the State requires the State to confirm in writing that the Deliverable meets its specifications. Formal approval may include the successful completion of Testing as applicable in **Section 2.253**, to be led by the State with the support and assistance of Contractor. The approval process will be facilitated by ongoing consultation between the parties, inspection of interim and intermediate Deliverables and collaboration on key decisions.
  
- (b) The State’s obligation to comply with any State Review Period is conditioned on the timely delivery of Deliverables/Services being reviewed.
  
- (c) Before commencement of its review or testing of a Deliverable/Service, the State may inspect the Deliverable/Service to confirm that all components of the Deliverable/Service have been delivered without material deficiencies. If the State determines that the Deliverable/Service has material deficiencies, the State may refuse delivery of the Deliverable/Service without performing any further inspection or testing of the Deliverable/Service. Otherwise, the review period will be deemed to have started on the day the State receives the Deliverable or the Service begins, and the State and Contractor agree that the Deliverable/Service is ready for use and, where applicable, certification by Contractor according to **Section 2.253**.
  
- (d) The State will approve in writing a Deliverable/Service after confirming that it conforms to and performs according to its specifications without material deficiency. The State may, but is not be required to, conditionally approve in writing a Deliverable/Service that contains material deficiencies if the State elects to permit Contractor to rectify them post-approval. In any case, Contractor will be responsible for working diligently to correct within a reasonable time at Contractor’s expense all deficiencies in the Deliverable/Service that remain outstanding at the time of State approval.
  
- (e) If, after three opportunities (the original and two repeat efforts), the Contractor is unable to correct all deficiencies preventing Final Acceptance of a Deliverable/Service, the State may: (i) demand that the Contractor cure the failure and give the Contractor additional time to cure the failure at the sole expense of the Contractor; or (ii) keep the Contract in force and do, either itself or through other parties, whatever the Contractor has failed to do, and recover the difference between the cost to cure the deficiency and the contract price plus an additional sum equal to 10% of the cost to cure the deficiency to cover the State’s general expenses provided the State can furnish proof of the general expenses; or (iii) terminate the particular Statement of Work for default, either in whole or in part by notice to Contractor provided Contractor is unable to cure the breach. Notwithstanding the foregoing, the State cannot use, as a basis for exercising its termination rights under this Section, deficiencies discovered in a repeat State Review Period that could reasonably have been discovered during a prior State Review Period.
  
- (f) The State, at any time and in its reasonable discretion, may halt the testing or approval process if the process reveals deficiencies in or problems with a Deliverable/Service in a sufficient quantity or of a sufficient severity that renders continuing the process unproductive or unworkable. If that happens, the State may stop using the Service or return the applicable Deliverable to Contractor for correction and re-delivery before resuming the testing or approval process.

**2.255 Process For Approval of Written Deliverables**

The State Review Period for Written Deliverables will be the number of days set forth in the applicable Statement of Work following delivery of the final version of the Deliverable (and if the Statement of Work does not state the State Review Period, it is by default five Business Days for Written Deliverables of 100 pages or less and 10 Business Days for Written Deliverables of more than 100 pages). The duration of the State Review Periods will be doubled if the State has not had an opportunity to review an interim draft of the Written Deliverable before its submission to the State. The State agrees to notify Contractor in writing by the end of the State Review Period either stating that the



Deliverable is approved in the form delivered by Contractor or describing any deficiencies that must be corrected before approval of the Deliverable (or at the State's election, after approval of the Deliverable). If the State notifies the Contractor about deficiencies, the Contractor will correct the described deficiencies and within 30 Business Days resubmit the Deliverable in a form that shows all revisions made to the original version delivered to the State. Contractor's correction efforts will be made at no additional charge. Upon receipt of a corrected Deliverable from Contractor, the State will have a reasonable additional period of time, not to exceed the length of the original State Review Period, to review the corrected Deliverable to confirm that the identified deficiencies have been corrected.

**2.256 Process for Approval of Services**

The State Review Period for approval of Services is governed by the applicable Statement of Work (and if the Statement of Work does not state the State Review Period, it is by default 30 Business Days for Services). The State agrees to notify the Contractor in writing by the end of the State Review Period either stating that the Service is approved in the form delivered by the Contractor or describing any deficiencies that must be corrected before approval of the Services (or at the State's election, after approval of the Service). If the State delivers to the Contractor a notice of deficiencies, the Contractor will correct the described deficiencies and within 30 Business Days resubmit the Service in a form that shows all revisions made to the original version delivered to the State. The Contractor's correction efforts will be made at no additional charge. Upon implementation of a corrected Service from Contractor, the State will have a reasonable additional period of time, not to exceed the length of the original State Review Period, to review the corrected Service for conformity and that the identified deficiencies have been corrected.

**2.257 Process for Approval of Physical Deliverables**

The State Review Period for approval of Physical Deliverables is governed by the applicable Statement of Work (and if the Statement of Work does not state the State Review Period, it is by default 30 continuous Business Days for a Physical Deliverable). The State agrees to notify the Contractor in writing by the end of the State Review Period either stating that the Deliverable is approved in the form delivered by the Contractor or describing any deficiencies that must be corrected before approval of the Deliverable (or at the State's election, after approval of the Deliverable). If the State delivers to the Contractor a notice of deficiencies, the Contractor will correct the described deficiencies and within 30 Business Days resubmit the Deliverable in a form that shows all revisions made to the original version delivered to the State. The Contractor's correction efforts will be made at no additional charge. Upon receipt of a corrected Deliverable from the Contractor, the State will have a reasonable additional period of time, not to exceed the length of the original State Review Period, to review the corrected Deliverable to confirm that the identified deficiencies have been corrected.

**2.258 Final Acceptance**

Unless otherwise stated in the Article 1, Statement of Work or Purchase Order, "Final Acceptance" of each Deliverable must occur when each Deliverable/Service has been approved by the State following the State Review Periods identified in **Sections 2.251-2.257**. Payment will be made for Deliverables installed and accepted. Upon acceptance of a Service, the State will pay for all Services provided during the State Review Period that conformed to the acceptance criteria.

**2.260 Ownership**

**2.261 PRESERVATION OF VERTEX STANDARD'S PROPRIETARY RIGHTS.**

Vertex Standard, the third party manufacturer of any Equipment, and the copyright owner of any Non-Vertex Standard Software own and retain all of their respective Proprietary Rights in the Equipment and Software, and nothing in this Agreement is intended to restrict their Proprietary Rights. All intellectual property developed, originated, or prepared by Vertex Standard in connection with providing to State the Equipment, Software, or related services remain vested exclusively in Vertex Standard, and this Agreement does not grant to State any shared development rights of intellectual property. Except as explicitly provided in the Software License Agreement, Vertex Standard does not grant to State, either



directly or by implication, estoppel, or otherwise, any right, title or interest in Vertex Standard's Proprietary Rights. State will not modify, disassemble, peel components, decompile, otherwise reverse engineer or attempt to reverse engineer, derive source code or create derivative works from, adapt, translate, merge with other software, reproduce, distribute, sublicense, sell or export the Software, or permit or encourage any third party to do so. The preceding sentence does not apply to Open Source Software which is governed by the standard license of the copyright owner.

**2.262 Rights in Data**

The State is the owner of all data made available by the State to the Contractor or its agents, Subcontractors or representatives under the Contract. The Contractor will not use the State's data for any purpose other than providing the Services, nor will any part of the State's data be disclosed, sold, assigned, leased or otherwise disposed of to the general public or to specific third parties or commercially exploited by or on behalf of the Contractor. No employees of the Contractor, other than those on a strictly need-to-know basis, have access to the State's data. Contractor will not possess or assert any lien or other right against the State's data. Without limiting the generality of this Section, the Contractor must only use personally identifiable information as strictly necessary to provide the Services and must disclose the information only to its employees who have a strict need-to-know the information. The Contractor must comply at all times with all laws and regulations applicable to the personally identifiable information.

The State is the owner of all State-specific data under the Contract. The State may use the data provided by the Contractor for any purpose. The State will not possess or assert any lien or other right against the Contractor's data. Without limiting the generality of this Section, the State may use personally identifiable information only as strictly necessary to utilize the Services and must disclose the information only to its employees who have a strict need to know the information, except as provided by law. The State must comply at all times with all laws and regulations applicable to the personally identifiable information. Other material developed and provided to the State remains the State's sole and exclusive property.

**2.263 Ownership of Materials**

The State and the Contractor will continue to own their respective proprietary technologies developed before entering into the Contract. Any hardware bought through the Contractor by the State, and paid for by the State, will be owned by the State. Any software licensed through the Contractor and sold to the State, will be licensed directly to the State.

**2.270 State Standards**

**2.271 Existing Technology Standards**

The Contractor will adhere to all existing standards as described within the comprehensive listing of the State's existing technology standards at <http://www.michigan.gov/dit>.

**2.272 Acceptable Use Policy**

To the extent that Contractor has access to the State computer system, Contractor must comply with the State's Acceptable Use Policy, see <http://www.michigan.gov/ditservice>. All Contractor employees must be required, in writing, to agree to the State's Acceptable Use Policy before accessing the State system. The State reserves the right to terminate Contractor's access to the State system if a violation occurs.

**2.273 Systems Changes**

Contractor is not responsible for and not authorized to make changes to any State systems without written authorization from the Project Manager. Any changes Contractor makes to State systems with the State's approval must be done according to applicable State procedures, including security, access and configuration management procedures.



**2.280 Extended Purchasing**

**2.281 MIDEAL**

Act Number 431 of the Public Acts of 1984 permits the State of Michigan, Department of Management and Budget, to provide purchasing services to any city, village, county, township, school district, intermediate school district, non-profit hospital, institution of higher education, community, or junior college. As a result of the enactment of this legislation, the MIDEAL Program has been developed. This program extends the use of state contracts to program members. The governmental agency must enter into an agreement with the State of Michigan to become authorized to participate, thus ensuring that local units of government secure a greater return for the expenditure of public funds.

In those cases, contract vendors supply merchandise at the established State of Michigan contract prices and terms. The Bidder must submit invoices and pay the authorized MIDEAL member on a direct and individual basis according to contract terms.

**THIS CONTRACT IS AVAILABLE TO ALL STATE OF MICHIGAN AGENCIES AND AUTHORIZED MIDEAL PURCHASING PROGRAM MEMBERS.**

Please Visit Mi DEAL at [www.michigan.gov/buymichiganfirst](http://www.michigan.gov/buymichiganfirst) under MiDeal.

**2.282 State Employee Purchases**

The State allows State employees to purchase from this Contract. Unless otherwise stated, it is the responsibility of the Contractor to ensure that the State employee is an authorized purchaser before extending the Contract pricing.

The Contractor will supply Contract Services and Deliverables at the established State of Michigan contract prices and terms to the extent applicable and where available. The Contractor must send its invoices to and pay the State employee on a direct and individual basis.

To the extent that authorized State employees purchase quantities of Services or Deliverables under this Contract, the quantities of Services and/or Deliverables purchased will be included in determining the appropriate rate wherever tiered pricing based on quantity is provided.

**2.290 Environmental Provision**

**2.291 Environmental Provision**

Energy Efficiency Purchasing Policy – The State seeks wherever possible to purchase energy efficient products. This includes giving preference to U.S. Environmental Protection Agency (EPA) certified ‘Energy Star’ products for any category of products for which EPA has established Energy Star certification. For other purchases, the State may include energy efficiency as one of the priority factors to consider when choosing among comparable products.

Environmental Purchasing Policy – The State of Michigan is committed to encouraging the use of products and services that impact the environment less than competing products. The State is accomplishing this by including environmental considerations in purchasing decisions, while remaining fiscally responsible, to promote practices that improve worker health, conserve natural resources, and prevent pollution. Environmental components that are to be considered include: recycled content and recyclability; energy efficiency; and the presence of undesirable materials in the products, especially those toxic chemicals which are persistent and bioaccumulative. The Contractor should be able to supply products containing recycled and environmentally preferable materials that meet performance requirements and is encouraged to offer such products throughout the duration of this Contract. Information on any relevant third party certification (such as Green Seal, Energy Star, etc.) should also be provided.



**Hazardous Materials:**

For the purposes of this Section, "Hazardous Materials" is a generic term used to describe asbestos, ACBMs, PCBs, petroleum products, construction materials including paint thinners, solvents, gasoline, oil, and any other material the manufacture, use, treatment, storage, transportation or disposal of which is regulated by the federal, state or local laws governing the protection of the public health, natural resources or the environment. This includes, but is not limited to, materials the as batteries and circuit packs, and other materials that are regulated as (1) "Hazardous Materials" under the Hazardous Materials Transportation Act, (2) "chemical hazards" under the Occupational Safety and Health Administration standards, (3) "chemical substances or mixtures" under the Toxic Substances Control Act, (4) "pesticides" under the Federal Insecticide Fungicide and Rodenticide Act, and (5) "hazardous wastes" as defined or listed under the Resource Conservation and Recovery Act.

(a) The Contractor must use, handle, store, dispose of, process, transport and transfer any material considered a Hazardous Material according to all federal, State and local laws. The State must provide a safe and suitable environment for performance of Contractor's Work. Before the commencement of Work, the State must advise the Contractor of the presence at the work site of any Hazardous Material to the extent that the State is aware of the Hazardous Material. If the Contractor encounters material reasonably believed to be a Hazardous Material and which may present a substantial danger, the Contractor must immediately stop all affected Work, notify the State in writing about the conditions encountered, and take appropriate health and safety precautions.

(b) Upon receipt of a written notice, the State will investigate the conditions. If (a) the material is a Hazardous Material that may present a substantial danger, and (b) the Hazardous Material was not brought to the site by the Contractor, or does not result in whole or in part from any violation by the Contractor of any laws covering the use, handling, storage, disposal of, processing, transport and transfer of Hazardous Materials, the State must order a suspension of Work in writing. The State must proceed to have the Hazardous Material removed or rendered harmless. In the alternative, the State must terminate the affected Work for the State's convenience.

(c) Once the Hazardous Material has been removed or rendered harmless by the State, the Contractor must resume Work as directed in writing by the State. Any determination by the Michigan Department of Community Health or the Michigan Department of Environmental Quality that the Hazardous Material has either been removed or rendered harmless is binding upon the State and Contractor for the purposes of resuming the Work. If any incident with Hazardous Material results in delay not reasonable anticipatable under the circumstances and which is attributable to the State, the applicable SLA(s) for the affected Work will not be counted in time as mutually agreed by the parties.

(d) If the Hazardous Material was brought to the site by the Contractor, or results in whole or in part from any violation by the Contractor of any laws covering the use, handling, storage, disposal of, processing, transport and transfer of Hazardous Material, or from any other act or omission within the control of the Contractor, the Contractor must bear its proportionate share of the delay and costs involved in cleaning up the site and removing and rendering harmless the Hazardous Material according to Applicable Laws to the condition approved by applicable regulatory agency(ies).

Michigan has a Consumer Products Rule pertaining to labeling of certain products containing volatile organic compounds. For specific details visit [http://www.michigan.gov/deq/0,1607,7-135-3310\\_4108-173523--,00.html](http://www.michigan.gov/deq/0,1607,7-135-3310_4108-173523--,00.html)

**Refrigeration and Air Conditioning:**

The Contractor shall comply with the applicable requirements of Sections 608 and 609 of the Clean Air Act (42 U.S.C. 7671g and 7671h) as each or both apply to this contract.

**Environmental Performance:**

Waste Reduction Program - Contractor shall establish a program to promote cost-effective waste reduction in all operations and facilities covered by this contract. The Contractor's programs shall comply with applicable Federal, State, and local requirements, specifically including Section 6002 of the Resource Conservation and Recovery Act (42 U.S.C. 6962, et seq.).



**Attachment A – Pricing Matrix**

**VERTEX PRODUCT LIST**

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
1.0 - FIXED STATIONS	Vertex	Create Base Station by Installing VX-4000, VX-5500, or VX-6000 Series Mobile	N/A	BSC-5000 BASE STATION CONSOLE	28.0%		N/A	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - VXR-1000 Series Vehicular Repeaters 5W 450-470MHz 16CH	450-470	VXR-1000U PKG-1	28.0%		\$ 218.50	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - VXR-1000 Series Vehicular Repeaters 5W 150-174MHz 16CH	150-174	VXR-1000V PKG-1	28.0%		\$ 218.50	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - VXR-7000 Series FM Desktop Repeater 50w 400-430MHz 16CH	400-430	VXR-7000UA PKG-1	28.0%		\$ 209.62	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - VXR-7000 Series FM Desktop Repeater 50w 450-480MHz 16CH	450-480	VXR-7000UD PKG-1	28.0%		\$ 177.00	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - VXR-7000 Series FM Desktop Repeater 50w 136-150MHz 16CH	135-150	VXR-7000VA PKG-1	28.0%		\$ 177.00	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - VXR-7000 Series FM Desktop Repeater 50w 150-174MHz 16CH	150-174	VXR-7000VC PKG-1	28.0%		\$ 177.00	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - Rack Mount FM Repeater 50W (25W Continuous) 400-430 MHz 32CH	400-430	VXR-9000UA PKG-1	28.0%		\$ 139.67	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - Rack Mount FM Repeater, 100W Continuous, 450-490MHz, 32CH	450-490	VXR-9000UD 100W PKG 1	28.0%		\$ 139.67	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - Rack Mount FM Repeater 50W (25W Continuous) 450-490 MHz 32CH	450-490	VXR-9000UD PKG-1	28.0%		\$ 139.67	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
1.0 - FIXED STATIONS	Vertex	Repeater - VXR-9000VA PKG-1	134-174	VXR-9000VA PKG-1	28.0%		\$ 152.22	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - Rack Mount FM Repeater, 100W Continuous, 148-174MHz, 32CH	134-174	VXR-9000VC 100W PKG 1	28.0%		\$ 152.22	YES	YES
1.0 - FIXED STATIONS	Vertex	Repeater - Rack Mount FM Repeater 50W (25W Continuous) 134-174MHz 32CH	134-174	VXR-9000VC PKG-1	28.0%		\$ 152.22	YES	YES
1.1 - FIXED STATION ACCESSORIES	Vertex	Cable for connection to tone panel.	N/A	CT-103	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	Optional cooling fan for the BSC-5000.	N/A	FAN-1	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	Direct Connect Interface Cable for VX-2000/VX-3000 Series Mobiles	N/A	CT-65	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	Duplexer Installation Kit	N/A	CT-68	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	50 Watt Internal Duplexer for VXR-7000, UHF 440-480 MHz	N/A	VXD-60UD	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	50 Watt Internal Duplexer for the VXR-7000, VHF 148-160 MHz	N/A	VXD-60VC	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	Internal power supply for the VXR-9000 rack mount repeater (50W ONLY - CANNOT BE USED w/ 100W Version).	N/A	FP-31 POWER SUPPLY	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	The FIF-9 is an interface unit which allows remote control of the VXR-9000 repeater via a 4-line or 8-line cable.	N/A	FIF-9	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	VPA-9000UD POWER AMPLIFIER Kit, UHF 450-490MHz	N/A	VPA-9000UD	10.0%		N/A	YES	N/A
1.1 - FIXED STATION ACCESSORIES	Vertex	VPA-9000VC POWER AMPLIFIER Kit, VHF 148-174MHz	N/A	VPA-9000VC	10.0%		N/A	YES	N/A
13.0 - PARTS &	Vertex	Antenna - 134-150 MHz	N/A	ATV-8A	10.0%		N/A	N/A	N/A



# VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
<b>ACCESSORIES</b>		/ Sable / 6"							
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna - 150-163 MHz / Sable / 6"	N/A	ATV-8B	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna - 162-174 MHz / Sable / 6"	N/A	ATV-8C	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna - 7" untuned VHF antenna	N/A	ATV-6XL	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna - 400-430 MHZ / BROWN / 6.5" / VX10UA/600/800/900	N/A	ATU-6A	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna - 450-485 MHZ / RED / 6" / VX-10/160/180/210/400/600 /800/900	N/A	ATU-6D	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna - 470 - 512 MHz / 5.5"	N/A	ATU-6F	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Battery - 7.4 V 1150 mAh Lithium-Ion Battery	N/A	FNB-V103LI	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Battery - 7.4 V 2000 mAh Lithium-Ion Battery	N/A	FNB-V104LI	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - Desk Top Rapid Charger for VX-351/354, 120VAC	N/A	VAC-300B (PA-42B/CD-34)	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - 6-Unit Rapid Multi Charger, 120VAC	N/A	VAC-6300	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - Desktop Charger Bracket for VAC-300	N/A	DCM-1	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Cable - Computer to Radio Programming Cables. (Contains CT-28A + CT-29A)	N/A	CT-42A	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Cable - FIF-10A USB Interface for PC programming. Check specific models for additional cable pigtails. Pigtails not included.	N/A	FIF-10A	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Cable - Cloning Cable (Set-to-Set Clone)	N/A	CT-27A	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Factory Radio Programming (single channel only)	N/A	PROGRAMMING	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp;</b>	Vertex	Headset - VOX	N/A	VC-25	10.0%		N/A	N/A	N/A



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SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
<b>ACCESSORIES</b>		HEADSET VX-110/150/160/180/210							
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Earpiece Microphone, Light Duty	N/A	MH-37A4B	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Microphone - Speaker Microphone, Heavy Duty Public Safety Style w/Volume Switch, Intrinsically Safe	N/A	MH-45B4B	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Microphone - Compact Speaker Microphone for VX-210A, VX-160, and VX-180. Very similar to the MH-34D4B.	N/A	MH-360S	10.0%		N/A	NO	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Microphone - MH-450S SPEAKER MICROPHONE	N/A	MH-450S SPEAKER MICROPHONE	10.0%		N/A	NO	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Adaptor - SMA to BNC Adaptor	N/A	CN-3	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Belt Clip	N/A	CLIP-18	10.0%		N/A	NO	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna - 150-163 MHz / 3.5"	N/A	ATV-6B	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna - 161-174 MHz / 3.5"	N/A	ATV-6C	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Battery - FNB-V95LI 7.4V/1800mAh	N/A	FNB-V95LI 7.4V/1800mAh	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Battery - FNB-V96LI 7.4V/2000mAh	N/A	FNB-V96LI 7.4V/2000mAh	10.0%		N/A	NO	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - LCC-351 VX-351 LEATHER CASE	N/A	LCC-351 VX-351 LEATHER CASE	10.0%		N/A	NO	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - LCC-351S VX-351 LEATHER CASE W/SWIVEL	N/A	LCC-351S VX-351 LEATHER CASE W/SWIVEL	10.0%		N/A	NO	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - LCC-354 VX-354 LEATHER CASE	N/A	LCC-354 VX-354 LEATHER CASE	10.0%		N/A	NO	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - LCC-354S VX-354 LEATHER CASE W/SWIVEL	N/A	LCC-354S VX-354 LEATHER CASE W/SWIVEL	10.0%		N/A	NO	N/A



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SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
13.0 - PARTS & ACCESSORIES	Vertex	Charger - Desk Top Rapid Charger for VX-351/354, 230VAC	N/A	VAC-300C (PA-42C/CD-34)	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - VAC-6300B	N/A	VAC-6300B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - VAC-6300C	N/A	VAC-6300C	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Option Board - Encryption Unit (Band Inversion Type) and DTMF Paging. (requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000)	N/A	FVP-25	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Option Board - Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000. Requires VX MPI for programming	N/A	FVP-35	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Option Board - VME-100 BOARD FOR MDC1200 DIGITAL ANI	N/A	VME-100	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	VX-410/420 Firmware Cable. Requires FIF-8	N/A	CT-124A	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	VX-410/420 Firmware Cable. Requires FIF-10A	N/A	CT-124B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna - 450-485 MHz / 3.5"	N/A	ATU-6DS	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna - High Gain antenna, 145-155MHz (Red) / 10.5"	N/A	ATV-10A	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna - High Gain antenna, 150-160MHz (Brn) / 10.5"	N/A	ATV-10B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna - High Gain antenna, 155-165MHz (Blk) / 10.5"	N/A	ATV-10C	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna - High Gain antenna, 165-175MHz (Org) / 10.5"	N/A	ATV-10E	10.0%		N/A	N/A	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
13.0 - PARTS & ACCESSORIES	Vertex	Battery - 7.2 V 700 mAh Ni-Cd Battery	N/A	FNB-64	10.0%		N/A	NO	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - 7.2 V 1400 mAh Ni-MH Battery	N/A	FNB-83	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - 7.2 V 1100 mAh Ni-Cd Battery, Intrinsically Safe Version	N/A	FNB-V57IS	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - 7.2V 2000 mAh Lithium-Ion Battery for the VX-160 and VX-180 portables. (Requires the VAC-810 charger)	N/A	FNB-V67Li	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Leather Case with belt loop	N/A	LCC-410	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Leather Case with Swivel	N/A	LCC-410S	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 240 VAC 12-Hour Desktop Charger	N/A	NC-77C	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 120 VAC 3-Hour Desktop Charger (Not recommended for use with Lilon Batteries)	N/A	VAC-10B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - The VAC-6010 is a rugged 6-Unit Multi Charger that enables recharging of Ni-Cd and Ni-MH battery packs for VX-160/180/410/420 transceivers.	N/A	VAC-6010B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 6 UNIT Multi-Rapid Charger, 240VAC	N/A	VAC-6800C	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 120 VAC 6 UNIT Multi-Rapid Charger	N/A	VAC-6810B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - Charge Stand Only for VAC801B & VCM-1 (Without Power Supply)	N/A	CD-45	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 120 VAC 1-Hour Desktop Charger	N/A	VAC-801B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - Charge Stand Only for VCM-1 (Without	N/A	VAC-810	10.0%		N/A	N/A	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		Power Supply)							
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 120 VAC 1.5 Hour Desktop Charger required for the FNB-V67Li High Capacity Battery.	N/A	VAC-810B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - Vehicular DC Charger Mounting Adaptor. Requires a charging base: VAC-400, CD-45, etc.)	N/A	VCM-1	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - Vehicular Charger Mounting Adapter Kit for VAC-10	N/A	VCM-3	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Cable - Pigtail Cable	N/A	CT-28A	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Installation Charge.	N/A	INST-OPT	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Programming Kit for the MDC1200 and the FVP-35	N/A	VX MPI	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Headset - Lightweight Headset w/ Boom	N/A	VH-115S	10.0%		N/A	NO	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Headset - Lightweight Padded Headset, Single Speaker	N/A	VH-215S	10.0%		N/A	NO	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Headset - Lightweight Padded Headset, Dual Speaker	N/A	VH-225S	10.0%		N/A	NO	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Option Board - Digital Voice Storage Board (120 sec. max.)	N/A	DVS-5	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Option Board - MDC1200 ANI Encoder. Requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000. Requires VX MPI for programming.	N/A	MDC1200	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Option Board - VMDE-200 BOARD FOR MDC1200 ENCODE/DECODE	N/A	VMDE-200	10.0%		N/A	YES	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
13.0 - PARTS & ACCESSORIES	Vertex	Firmware Writer. Unit comes with a cable for the multi-pin radios (VX-900, VX-4000, etc.). Please order the CT-92 cable for firmware updating of modular connector radios (VX-3200, VX-4200, VXR-9000, etc.). Powered by a PA-23B (not supplied).	N/A	FIF-8	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - Alkaline Battery Case (Requires 6 AA Cells) (substitute for FNB-V57 battery)	N/A	FBA-25A	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Belt Clip - CLIP-17C BELT CLIP	N/A	CLIP-17C BELT CLIP	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Leather Case with belt loop	N/A	LCC-420	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - The VAC-6010C is a rugged 6-Unit Multi Charger that enables recharging of Ni-Cd and Ni-MH battery packs for VX-160/180/410/420 transceivers.	N/A	VAC-6010C	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 6 UNIT Multi-Rapid Charger, 120VAC	N/A	VAC-6800B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna 30-36 MHz /10.5"	N/A	ATL-1A	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna 36-42 MHz / 10.5"	N/A	ATL-1B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna 42-50 MHz / 10.5"	N/A	ATL-1C	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - Alkaline Battery Case (Requires 6 AA Cells)	N/A	FBA-19	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - 7.2 V, 1700 mAh Ni-Cd Battery	N/A	FNB-29A	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - 7.2 V, 1700 mAh Ni-Cd Battery, Intrinsically Safe Version	N/A	FNB-29AIS	10.0%		N/A	YES	N/A
13.0 - PARTS &	Vertex	Belt Clip	N/A	CLIP-4	10.0%		N/A	YES	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
<b>ACCESSORIES</b>									
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - Leather Case w/Belt Loop	N/A	LCC-500	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - Swivel Attachment for Leather Case	N/A	LCS-2	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - Charger Cup only, use with VCM-1	N/A	VAC-520	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - 120 VAC 1-Hour Rapid Desktop Charger	N/A	VAC-520B	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - 240 VAC 1-Hour Rapid Desktop Charger	N/A	VAC-520C	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - 120 VAC 6 Unit Multi Charger	N/A	VAC-6520B	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - 240 VAC 6 Unit Multi Charger	N/A	VAC-6520C	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna Jack Test Connector	N/A	CN-1A	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Factory DTMF Keyboard Installation	N/A	INST-DTMF	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Cable - Programming cable from PC. Check specific models for additional cable pigtails.	N/A	VX VPL-1	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Option Board - ANI Board (DTMF or 5 Tone Format) CT-43A Required to Prog.	N/A	FTE-19	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	DTMF Keypad with Decode Function	N/A	FTT-7D	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Option Board - Encryption Unit (Band Inversion Type)	N/A	FVP-22	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Microphone - Speaker Microphone, Medium Duty	N/A	MH-30A2B	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Microphone - Speaker Microphone, Heavy Duty Public Safety Style w/Volume Switch	N/A	MH-45A2B	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Antenna 134-151 MHz / 4"	N/A	ATV-6A	10.0%		N/A	N/A	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE (Purchased with model)	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
13.0 - PARTS & ACCESSORIES	Vertex	Antenna - Dual-band antenna for multi-band Rx: 134-151MHz / 450-520MHz	N/A	ATW-1A	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna - Dual-band antenna for multi-band Rx: 150-163MHz / 450-520MHz	N/A	ATW-1B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Antenna - Dual-band antenna for multi-band Rx: 161-174MHz / 450-520MHz	N/A	ATW-1C	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - 7.4 V 1150mAh Li-ion Battery	N/A	FNB-V86LI	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - 7.4V 2000mAh Li-ion Battery	N/A	FNB-V87LI	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - FNB-V92LI BATTERY / 7.4V 3000mAh	N/A	FNB-V92LI	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Battery - Intrinsically Safe LiION Battery, 7.4 V / 3000MAH	N/A	FNB-V92LIIS	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Belt Clip for VX-820/870	N/A	CLIP-820	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Leather case with Belt Loop	N/A	LCC-820	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, Swivel Clip, No Window for VX-821/871 & VX-P821/871 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-820SN1C	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, Swivel Clip, Full Window for VX-829/879 & VX-P829/P879 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-820SN3C	10.0%		N/A	YES	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 120/240VAC 6 unit Multi-Rapid Charger w/ US power cable	N/A	VAC-6920B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 120 VAC Desktop Rapid charger	N/A	VAC-920B	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Cable - PC programming cable (for use with the FIF-10 or FIF-10A USB Interface)	N/A	CT-108	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Cable - PC Programming kit (Contains a VPL-1 programming cable and adaptor for the new VX-820/920 portables)	N/A	CT-109	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Cable - Firmware writing cable (For use with the FIF-8)	N/A	CT-110	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Cable - Programming cable only (requires VPL-1)	N/A	CT-115	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Cable - Radio to Radio Programming Cable	N/A	CT-116	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Headset - Heavy Duty, Dual Muff, Over the head style, with Boom Mic	N/A	VH-111	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	3 Wire Mini Lapel Mic Surveillance Kit	N/A	VH-121	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Microphone - Public Safety Speaker Microphone w/toggle, MIL-STD Rated	N/A	MH-50D7A	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Microphone - MH-66A7A Submersible Noise Canceling Speaker Microphone	N/A	MH-66A7A	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Microphone - MH-66B7A Submersible Speaker Microphone with 2 Programmable Function Keys and Audio Attenuator Switch.	N/A	MH-66B7A	10.0%		N/A	YES	N/A
13.0 - PARTS &	Vertex	Battery - Alkaline Battery	N/A	FBA-34	10.0%		N/A	YES	N/A



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SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
<b>ACCESSORIES</b>		Case VX-820/920 series							
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Belt Clip - CLIP-17B BELT CLIP	N/A	CLIP-17B BELT CLIP	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - Leather Case with Swivel and Belt Loop	N/A	LCC-920S	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - Nylon Case, Swivel Clip, No Window for VX-921/971 & VX-P921/971 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-920SN1C	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - Nylon Case, Metal D Swivel, Leather Belt Loop, 1/2 Window for VX-924/974 & VX-P924/P974 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-920SN2D	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Option Board - Encryption Unit (Band Inversion Type)	N/A	FVP-36	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Option Board - Dual Band Rx module. Adds UHF Rx to VHF radio. 450 MHz ~ 512 MHz	N/A	SRX-3 D	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Option Board - Dual Band Rx module. Adds VHF Rx to UHF radio. 135 MHz ~ 174 MHz	N/A	SRX-4	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Belt Clip - CLIP-17A	N/A	CLIP-17A	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Carry Case - Leather Case with Swivel	N/A	LCC-420S	10.0%		N/A	YES	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Charger - 240 VAC 1-Hour Desktop Charger	N/A	VAC-801C	10.0%		N/A	N/A	N/A
<b>13.0 - PARTS &amp; ACCESSORIES</b>	Vertex	Cable - FIF-10 to VX-160/180/410/420 Cable	N/A	CT-106	10.0%		N/A	N/A	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
13.0 - PARTS & ACCESSORIES	Vertex	Cable - DB9 Cable	N/A	CT-29A	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Leather Case with Swivel and Belt Loop	N/A	LCC-820S	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Leather Case w/Swivel, Belt Loop and Keyboard Opening	N/A	LCC-820S/TT	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, D Swivel, Leather Belt Loop, No Window for VX-821/871 & VX-P821/P871 series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-820SN1D	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, Swivel Clip, 1/2 Window for VX-824/874 & VX-P824/P874 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-820SN2C	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case. Metal D Swivel / Leather Belt Loop, 1/2 Window for VX-824/874 & VX-P824/P874 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-820SN2D	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, Metal D Swivel, Leather Belt Loop, Full Window for VX-829/879 & VX-P829/P879 Series. Works with any of our rechargeable battery	N/A	LCC-820SN3D	10.0%		N/A	YES	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		packs even the 3000mAh FNB-V92LI (and LIIS)							
13.0 - PARTS & ACCESSORIES	Vertex	Used with 16 key P25 Portable radios to enable Field Programming. Radios must be programmed with F version of CE76 which allows assignment of various items available for Field Programming.	N/A	CK-10 FIELD PROGRAMMING KEY	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Cable - Keyloader adapter cable for VX-P820/870 & VX-P920/970 series P25 radios with encryption option. Requires CT-129 or Motorola TKN8531C.	N/A	CT-127	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	PC Programming Hardware Kit	N/A	PPS/3	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Factory install option. AES/DES Encryption system for P25 Mobiles and Portables. Order Keyloader cables SEPARATELY.	N/A	AES/DES Encryption	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	920 BELT CLIP	N/A	CLIP-920	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Leather case w/ Swivel Clip and Keyboard Cut-Out	N/A	LCC-920S/TT	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, Metal D Swivel, Lether Belt Loop, No Window for VX-921/971 & VX-P921/P971 Series. Works with any of our rechargeable battery packs even the	N/A	LCC-920SN1D	10.0%		N/A	YES	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		3000mAh FNB-V92LI (and LIIS)							
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, Swivel Clip, 1/2 Window for VX-924/974 & VX-P924/P974 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-920SN2C	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, Swivel Clip, Full Window for VX-929/979 & VX-P929/P979 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-920SN3C	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Nylon Case, Metal D swivel, Leather Belt Loop, Full Window for VX-929/979 & VX-P929/P979 Series. Works with any of our rechargeable battery packs even the 3000mAh FNB-V92LI (and LIIS)	N/A	LCC-920SN3D	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Carry Case - Leather Case w/Belt Loop and Keypad Cut-out	N/A	LCC-920TT	10.0%		N/A	YES	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - 240 VAC Desk top rapid charger	N/A	VAC-920C	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Charger - Vehicular Charger Mounting Adapter Kit for VAC-920 & VAC-300	N/A	VCM-2	10.0%		N/A	YES	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
13.0 - PARTS & ACCESSORIES	Vertex	Cable - Keyloader interface cable for KVL-3000+. Use with either CT-127 (for Portables) or CT-128 (for Mobiles) for programming encryption keys into radio.	N/A	CT-129	10.0%		N/A	N/A	N/A
13.0 - PARTS & ACCESSORIES	Vertex	Option Board - Dual Band Rx module. Adds UHF Rx to VHF radio. 380 MHz ~ 450 MHz	N/A	SRX-3 H	10.0%		N/A	YES	N/A
2.0 - MOBILE RADIOS	Vertex	Radio - VX-2100 Series Mobile, 25W 134-174MHz, 8 CH w/MH-67A8J	134-174	VX-2100-D0-25 PKG-1	28.0%		\$ 91.74	N/A	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-2100 Series Mobile, 50W 134-174MHz, 8 CH w/MH-67A8J	134-174	VX-2100-D0-50 PKG-1	28.0%		\$ 91.74	N/A	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-2100 Series Mobile, 25W 450-512MHz, 8 CH w/MH-67A8J	450-512	VX-2100-G7-25 PKG-1	28.0%		\$ 85.81	N/A	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-2100 Series Mobile, 45W 450-512MHz, 8 CH w/MH-67A8J	450-512	VX-2100-G7-45 PKG-1	28.0%		\$ 85.81	N/A	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-2200 Series Mobile, 25W 134-174MHz, 128CH w/MH-67A8J	134-174	VX-2200-D0-25 PKG-1	28.0%		\$ 91.74	N/A	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-2200 Series Mobile, 50W 134-174MHz, 128CH w/MH-67A8J	134-174	VX-2200-D0-50 PKG-1	28.0%		\$ 91.74	N/A	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-2200 Series Mobile, 25W 450-512MHz, 128CH w/MH-67A8J	450-512	VX-2200-G7-25 PKG-1	28.0%		\$ 85.81	N/A	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-2200 Series Mobile, 45W 450-512MHz, 128CH w/MH-67A8J	450-512	VX-2200-G7-45 PKG-1	28.0%		\$ 85.81	N/A	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
2.0 - MOBILE RADIOS	Vertex	Radio - VX-4100 Series Compact Mobile 50W 134-174MHz 8CH w/MH-67A8J	134-174	VX-4104-0-50 PKG-1	28.0%		\$ 156.81	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-4100 Series Compact Mobile 45W 400-470MHz 8CH w/MH-67A8J	400-470	VX-4107-6-45 PKG-1	28.0%		\$ 156.92	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-4100 Series Compact Mobile 45W 450-512MHz 8CH w/MH-67A8J	450-512	VX-4107-7-45 PKG-1	28.0%		\$ 156.92	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-4200 Series Compact Mobile 50W 134-174MHz 501CH w/MH-67A8J	134-174	VX-4204-0-50 PKG-1 MH-25A8J	28.0%		\$ 156.81	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-4200 Series Compact Mobile 45W 400-470MHz 501CH w/MH-67A8J	400-470	VX-4207-6-45 PKG-1 MH-25A8J	28.0%		\$ 156.92	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-4200 Series Compact Mobile 45W 450-512MHz 501CH w/MH-67A8J	450-512	VX-4207-7-45 PKG-1 MH-25A8J	28.0%		\$ 156.92	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500V/U REMOTE PKG-Dual Decks / Single Head - Includes Radios (VHF & UHF), Remote Head, MH-53C7A Mic, CT-83 2' control cable and CT-81 20' control cable.	N/A	VX-5500 REMOTE PKG-DB	28.0%		\$ 200.90	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500V/U REMOTE PKG-Dual Decks / Dual Heads - Includes Radios (VHF & UHF), 2 Remote Heads, MH-53C7A Mic, CT-83 2' control cable and 2 CT-81 20' control cables.	N/A	VX-5500 REMOTE PKG-DBH	28.0%		\$ 200.90	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500L REMOTE PKG-Single Deck / Dual Heads - Includes Radio, 2 Remote Heads, 2 MH-53C7A Mics, CT-83 2' control cable and CT-81 20' control cable.	37-50	VX-5500L REMOTE PKG-DH	28.0%		\$ 200.90	YES	NO
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500L REMOTE PKG-Single Deck / Single Head - Includes Radio, Remote Head, MH-53C7A Mic, and CT-81 20' control cable.	37-50	VX-5500L REMOTE PKG-SH	28.0%		\$ 241.99	YES	NO
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500L DASH Mount High Spec Public Safety Mobile 70W 37-50MHz 250CH w/MH-53C7A Mic.	37-50	VX-5500LB PKG-1	28.0%		\$ 241.99	YES	NO
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500U REMOTE PKG-Single Deck / Dual Heads - Includes Radio, 2 Remote Heads, 2 MH-53C7A Mics, CT-83 2' control cable and CT-81 20' control cable.	400-512	VX-5500U REMOTE PKG-DH	28.0%		\$ 200.90	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500U REMOTE PKG-Single Deck / Single Head - Includes Radio, Remote Head, MH-53C7A Mic, and CT-81 20' control cable.	400-512	VX-5500U REMOTE PKG-SH	28.0%		\$ 200.90	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500U DASH Mount High Spec Public Safety Mobile 50W 450-490MHz 250CH w/MH-53C7A Mic.	450-490	VX-5500UD PKG-1	28.0%		\$ 200.90	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500V REMOTE PKG-Single Deck / Dual Heads - Includes Radio, 2 Remote Heads, 2 MH-53C7A Mics, CT-83 2' control cable and CT-81 20' control cable.	134-174	VX-5500V REMOTE PKG-DH	28.0%		\$ 200.90	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500V REMOTE PKG-Single Deck / Single Head - Includes Radio, Remote Head, MH-53C7A Mic, and CT-81 20' control cable.	134-174	VX-5500V REMOTE PKG-SH	28.0%		\$ 200.90	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-5500V DASH Mount High Spec Public Safety Mobile 50W 148-174MHz 250CH w/MH-53C7A Mic.	134-174	VX-5500VC PKG-1	28.0%		\$ 200.90	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-6000V/U REMOTE PKG-Dual Decks / Single Head - Includes Radios (VHF & UHF), Remote Head, MH-53C7A Mic, CT-83 2' control cable and CT-81 20' control cable.	N/A	VX-6000 REMOTE PKG-DB	28.0%		\$ 185.47	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-6000V/U REMOTE PKG-Dual Decks / Dual Heads - Includes Radios (VHF & UHF), 2 Remote Heads, 2 MH-53C7A Mics, CT-83 2' control cable and 2 CT-81 20' control cables.	N/A	VX-6000 REMOTE PKG-DBH	28.0%		\$ 185.47	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-6000L REMOTE PKG-Single Deck / Dual Heads - Includes Radio, 2 Remote Heads, 2 MH-53C7A Mics, CT-83 2' control cable and CT-81	37-50	VX-6000L REMOTE PKG-DH	28.0%		\$ 185.47	YES	NO



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		20' control cable							
<b>2.0 - MOBILE RADIOS</b>	Vertex	Radio - VX-6000L REMOTE PKG-Single Deck / Single Head - Includes Radio, Remote Head, MH-53C7A Mic, and CT-81 20' control cable.	37-50	VX-6000L REMOTE PKG-SH	28.0%		\$ 185.47	YES	NO
<b>2.0 - MOBILE RADIOS</b>	Vertex	Radio - VX-6000L DASH Mount High Spec Public Safety Mobile 120W 37-50MHz 250CH w/MH-53C7A Mic.	37-50	VX-6000LB PKG-1	28.0%		\$ 185.47	YES	NO
<b>2.0 - MOBILE RADIOS</b>	Vertex	Radio - VX-6000U REMOTE PKG-Single Deck / Dual Heads - Includes Radio, 2 Remote Heads, 2 MH-53C7A Mics, and CT-81 20' control cable.	450-480	VX-6000U REMOTE PKG-DH	28.0%		\$ 185.47	YES	YES
<b>2.0 - MOBILE RADIOS</b>	Vertex	Radio - VX-6000U REMOTE PKG-Single Deck / Single Head - Includes Radio, Remote Head, MH-53C7A Mic, and CT-81 20' control cable.	450-480	VX-6000U REMOTE PKG-SH	28.0%		\$ 185.47	YES	YES
<b>2.0 - MOBILE RADIOS</b>	Vertex	Radio - VX-6000U DASH Mount High Spec Public Safety Mobile 100W 450-490MHz 250CH w/MH-53C7A Mic.	450-480	VX-6000UD PKG-1	28.0%		\$ 185.47	YES	YES
<b>2.0 - MOBILE RADIOS</b>	Vertex	Radio - VX-6000V REMOTE PKG-Single Deck / Dual Heads - Includes Radio, 2 Remote Heads, 2 MH-53C7A Mics, CT-83 2' control cable and CT-81 20' control cable	148-174	VX-6000V REMOTE PKG-DH	28.0%		\$ 185.47	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
2.0 - MOBILE RADIOS	Vertex	Radio - VX-6000V REMOTE PKG-Single Deck / Single Head - Includes Radio, Remote Head, MH-53C7A Mic, and CT-81 20' control cable.	148-174	VX-6000V REMOTE PKG-SH	28.0%		\$ 185.47	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-6000V DASH Mount High Spec Public Safety Mobile 110W 148-174MHz 250CH w/MH-53C7A Mic.	148-174	VX-6000VC PKG-1	28.0%		\$ 185.47	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-7100-D0-50, 134-174MHz, 50 Watt, with MH-25A8J Mic	134-174	VX-7100-D0-50	28.0%		\$ 182.93	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-7100-G7-45, 450-512 MHz, 45 Watts, with MH-25A8J Mic.	450-512	VX-7100-G7-45	28.0%		\$ 182.93	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-7200-D0-50 PKG 1, 134-174MHz, 50W with MH-25A8J Mic.	134-174	VX-7200-D0-50	28.0%		\$ 182.93	YES	YES
2.0 - MOBILE RADIOS	Vertex	Radio - VX-7200-G7-45 PKG1, 450-512 MHz, 45 Watt, with MH-25A8J Mic.	450-512	VX-7200-G7-45	28.0%		\$ 182.93	YES	YES
2.1 - MOBILE ACCESSORY	Vertex	Microphone - MD-12A8J Desktop Microphone	N/A	MD-12A8J	10.0%		N/A	YES	YES
2.1 - MOBILE ACCESSORY	Vertex	Microphone - 16-key DTMF MICROPHONE	N/A	MH-75A8J	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Microphone - Standard Microphone	N/A	MH-67A8J	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	External Speaker (12 Watt Peak)	N/A	MLS-100	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	12 W peak external weatherproof speaker.	N/A	MLS-200	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Cable - CT-104A Interface Cable for FIF-10A	N/A	CT-104A	10.0%		N/A	N/A	N/A
2.1 - MOBILE ACCESSORY	Vertex	FIF-8 cable to the Mobiles VX-3200/VX-4200/VX-4200/VX-2500. Used for updating	N/A	CT-92	10.0%		N/A	N/A	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		firmware using the FIF-8 firmware writer.							
2.1 - MOBILE ACCESSORY	Vertex	Quick Release Mobile Bracket for VX-4100/4200	N/A	MMB-85	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Option Board - Interoperability Receiver Board. This is a UHF Sub-Receiver designed to be installed into the VHF VX-4100 or VX-4200 mobiles (VX-4104, VX-4204).	N/A	SRX-1	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Option Board - Interoperability Receiver Board. This is a VHF Sub-Receiver designed to be installed into the UHF VX-4100 or VX-4200 mobiles (VX-4107, VX-4207).	N/A	SRX-2	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	30 ft DC cable for VX-4000/-5500 mobiles.	N/A	E-DC-22	10.0%		N/A	N/A	N/A
2.1 - MOBILE ACCESSORY	Vertex	Mobile Mounting Bracket ( Supplied w/radio)	N/A	MMB-75	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Locking Mobile Mounting Bracket	N/A	MMB-76	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	This is a mounting bracket, which is a base plate for the CNT-5000 and MLS-200. The MMB-88 mounts to a motorcycle. The CNT-5000 and MLS-200 then mount to the MMB-88, side by side.	N/A	MMB-88	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Microphone - MD-12A8J/MULTI PIN PLUG DESKTOP MIC	N/A	MD-12A8J/MULTI PIN PLUG DESKTOP MIC	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Microphone - The MH-53A7A is a Noise-Canceling Microphone .	N/A	MH-53A7A	10.0%		N/A	YES	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
2.1 - MOBILE ACCESSORY	Vertex	Microphone - Heavy Duty Weatherproof Noise Canceling DTMF Microphone for the CNT-5000 remote Control Head.	N/A	MH-53A8A	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Microphone - The MH-53B7A is a Noise-Canceling Microphone with DTMF keypad.	N/A	MH-53B7A	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Cable - FIF-10 interface cable to connect: VX-530/600/800/900 Portables also VX-5500/VX-6000 Mobiles.	N/A	CT-105	10.0%		N/A	N/A	N/A
2.1 - MOBILE ACCESSORY	Vertex	Cable - Radio Programming Cable (Requires VX VPL-1 Cable)	N/A	CT-70	10.0%		N/A	N/A	N/A
2.1 - MOBILE ACCESSORY	Vertex	Cable - Cloning Cable (Set-to-Set Clone)	N/A	CT-72	10.0%		N/A	N/A	N/A
2.1 - MOBILE ACCESSORY	Vertex	Option Board - Connector Board (to be used with the installation of third-party options.)	N/A	CN-6	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Option Board - Two-Tone Decoder. (requires FIF-7 if used on the VX-4000 / VX-5500 / VX-6000)	N/A	F2D-8	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Option Board - Five-Tone Enc/Dec Unit. (requires FIF-7 if used on the VX-4000 / VX-5500 / VX-6000)	N/A	F5D-14	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Option Board - Interface Board (for VX-4000 / 5500 / 6000 with FVP-25, FVP-35, F2D-8 & VTP-50 option boards)	N/A	FIF-7A	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Compact motorcycle control head for the VX-4000, VX-5500 and VX-6000 mobiles.	N/A	CNT-5000	10.0%			YES	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
2.1 - MOBILE ACCESSORY	Vertex	Channel Selector Control Panel extension	N/A	VCS-5000	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Cover plate for the RF Deck in Remote Applications	N/A	RMK-4000B	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Cover plate for the Control Head (Includes mounting bracket and hardware)	N/A	RMK-4000H	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Dedicated Motorcycle Control Head. Built for ease of use and all weather operation.	N/A	RMK-5000B	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Remote Cable for RMK-4000 series (20 ft) (RF Deck to Control Head)	N/A	CT-81	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Remote Cable for RMK-4000 series (2 ft) (RF Deck to RF Deck)	N/A	CT-83	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Remote Cable for RMK-4000 series (30 ft) (RF Deck to Control Head)	N/A	CT-93	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Locking Mobile Mounting Bracket for the VX-6000	N/A	MMB-77	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Microphone - Vertex Mobile Microphone (Supplied w/radio)	N/A	MH-53C7A	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Control Head for multi-head configurations. Requires T9206958A for dual head remotes.	N/A	CNT-6000	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	Remote Cable for RMK-4000 series (8 ft) (RF Deck to Control Head)	N/A	CT-82	10.0%		N/A	YES	N/A
2.1 - MOBILE ACCESSORY	Vertex	The CT-88 cable is used in conjunction with the FIF-8 box to make adjustments to the alignment. This is for the VX-4000/VX-5500/VX-6000 mobiles. The CT-88 connects from the DB25	N/A	CT-88	10.0%		N/A	N/A	N/A



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		accessory port of the mobile, to the FIF-8 box interfaced to your PC.							
<b>2.1 - MOBILE ACCESSORY</b>	Vertex	Ignition Sense Cable for the VX-4000, VX-5500 and VX-6000 mobiles.	N/A	CT-96PS Ignition Sense Cable	10.0%		N/A	YES	N/A
<b>2.1 - MOBILE ACCESSORY</b>	Vertex	30 ft DC cable for VX-6000 mobiles.	N/A	E-DC-23	10.0%		N/A	YES	N/A
<b>2.1 - MOBILE ACCESSORY</b>	Vertex	30A Power Supply 110V	N/A	FP-1030A	10.0%		N/A	YES	N/A
<b>2.1 - MOBILE ACCESSORY</b>	Vertex	External Power Supply 23 Amp	N/A	FP-1023	10.0%		N/A	YES	N/A
<b>2.1 - MOBILE ACCESSORY</b>	Vertex	Keyloader adapter cable for VX-7100 & VX-7200 series P25 Mobile radios with encryption option. Requires CT-129 or Motorola TKN8531C.	N/A	CT-128	10.0%		N/A	N/A	N/A
<b>2.1 - MOBILE ACCESSORY</b>	Vertex	Plug-In Line Filter	N/A	LF-1	10.0%		N/A	YES	N/A
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-231-AD0B-5 5W 134-174MHz 16CH (Includes FNB-V103LI, VAC-300 and ATV-8B 150-162MHz)	134-174	VX-231-AD0B-5 High Perform PKG ATV-8B	28.0%		\$ 55.00	NO	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-231-AD0B-5 5W 134-174MHz 16CH (Includes FNB-V103LI, VAC-300 and ATV-8C 162-174MHz)	134-174	VX-231-AD0B-5 High Perform PKG-2 ATV-8C	28.0%		\$ 55.00	NO	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-231-AG7B-5 5W 450-512MHz 16CH (Includes FNB-V103LI, VAC-300 and ATU-6D 450-485MHz)	450-512	VX-231-AG7B-5 High Perform PKG ATU-6D	28.0%		\$ 55.00	NO	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VHF (150-162 MHz)High Performance Package with V95Li Battery, VAC-300B Rapid Charger and ATV-8B Ant.	150-162	VX-351-AD0B-5 PKG-1 High Performance	28.0%		\$ 82.12	NO	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE (Purchased with model)	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VHF (162-174 MHz)High Performance Package with V95Li Battery, VAC-300B Rapid Charger and ATV-8C Ant.	162-174	VX-351-AD0B-5 PKG-2 High Performance	28.0%		\$ 82.12	NO	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - UHF (450-485 MHz)High Performance Package with V95Li Battery, VAC-300B Rapid Charger and ATU-6D Ant.	450-485	VX-351-AG7B-5 PKG-1 High Performance	28.0%		\$ 82.12	NO	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - UHF (380-470 MHz, High Performance Package with V95Li Battery, VAC-300B Rapid Charger and ATU-6A Ant.	380-470	VX-351-AG8B-5 High Perform PKG ATU-6A	28.0%		\$ 82.12	NO	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VHF (150-162 MHz, 4 Key/LCD, High Performance Package with V95Li Battery, VAC-300B Rapid Charger and ATV-8B Ant.	150-162	VX-354-AD0B-5 PKG-1 High Performance	28.0%		\$ 82.12	NO	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VHF (162-174 MHz, 4 Key/LCD, High Performance Package with V95Li Battery, VAC-300B Rapid Charger and ATV-8C Ant.	162-174	VX-354-AD0B-5 PKG-2 High Performance	28.0%		\$ 82.12	NO	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - UHF (450-485 MHz, 4 Key/LCD, High Performance Package with V95Li Battery, VAC-300B Rapid Charger and ATU-6D Ant.	450-485	VX-354-AG7B-5 PKG-1 High Performance	28.0%		\$ 82.12	NO	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - UHF (380-470 MHz, 4 Key/LCD, High Performance Package with V95Li Battery, VAC-300B Rapid Charger and ATU-6A Ant.	380-470	VX-354-AG8B-5 High Perform PKG ATU-6A	28.0%		\$ 82.12	NO	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-410 Series Compact Portable 5W 150-162MHz 32CH	150-162	ISVX-414-2-5 FNB-V57IS	28.0%		\$ 97.85	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		w/FNB-V57IS Intrinsically Safe Version							
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series Compact Portable 5W 450-485MHz 32CH w/FNB-V57IS Intrinsically Safe Version	450-485	ISVX-417-4-5 FNB- V57IS	28.0%		\$ 97.85	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series 150 - 162 MHz Basic PKG-1 (includes FNB- 83, VAC-10B and ATV- 8B)	150-162	VX-414-2-5 Basic PKG-1 ATV-8B	28.0%		\$ 112.88	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series 162 - 174 MHz Basic PKG-1 (includes FNB- 83, VAC-10B and ATV- 8C)	162-174	VX-414-2-5 Basic PKG-2 ATV-8C	28.0%		\$ 112.88	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series 150 - 162 MHz High Perform PKG-1 (includes FNB-V67, VAC-810B and ATV-8B)	150-162	VX-414-2-5 High Perform PKG-1 ATV-8B	28.0%		\$ 112.88	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series 162 - 174 MHz High Perform PKG-1 (includes FNB-V67, VAC-810B and ATV-8C)	162-174	VX-414-2-5 High Perform PKG-2 ATV-8C	28.0%		\$ 112.88	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series 150-162MHz w/FNB-83 and ATV-8B	150-162	VX-414-2-5 PKG-1 FNB- 83 ATV-8B	28.0%		\$ 112.88	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series 162-174 MHz w/FNB-83 and ATV-8C	162-174	VX-414-2-5 PKG-2 FNB- 83 ATV-8C	28.0%		\$ 112.88	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series 450 - 485 MHz Basic PKG-1 (includes FNB- 83, VAC-10B and ATU- 6D)	450-485	VX-417-4-5 Basic PKG ATU-6D	28.0%		\$ 113.35	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - VX-410 Series 450 - 485 MHz High Perform PKG (includes FNB-V67, VAC-810B and ATU-6D)	450-485	VX-417-4-5 High Perform PKG ATU-6D	28.0%		\$ 113.35	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-410 Series Compact Portable 5W 450-485MHz 32CH w/FNB-83 7.2V1100mA, ATU-6D	450-485	VX-417-4-5 PKG-1 FNB-83 ATU-6D	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - ISVX-424-2-5 FNB-V57IS	150-162	ISVX-424-2-5 FNB-V57IS	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - ISVX-427-4-5 FNB-V57IS	450-485	ISVX-427-4-5 FNB-V57IS	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series 150 - 162 MHz Basic PKG-1 (includes FNB-83, VAC-10B and ATV-8B)	150-162	VX-424-2-5 Basic PKG-1 ATV-8B	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series 162 - 174 MHz Basic PKG-1 (includes FNB-83, VAC-10B and ATV-8C)	162-174	VX-424-2-5 Basic PKG-2 ATV-8C	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series 150 - 162 MHz High Perform PKG-1 (includes FNB-V67, VAC-810B and ATV-8B)	150-162	VX-424-2-5 High Perform PKG-1 ATV-8B	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series 162 - 174 MHz High Perform PKG-1 (includes FNB-V67, VAC-810B and ATV-8C)	162-174	VX-424-2-5 High Perform PKG-2 ATV-8C	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series 150-162MHz w/FNB-83 and ATV-8B	150-162	VX-424-2-5 PKG-1 FNB-83 ATV-8B	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series 162-174 MHz w/FNB-83 and ATV-8C	162-174	VX-424-2-5 PKG-2 FNB-83 ATV-8C	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series 450 - 485 MHz Basic PKG-1 (includes FNB-83, VAC-10B and ATU-6D)	450-485	VX-427-4-5 Basic PKG ATU-6D	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series 450 - 485 MHz High Perform PKG (includes FNB-V67, VAC-810B and ATU-6D)	450-485	VX-427-4-5 High Perform PKG ATU-6D	28.0%		\$ 113.35	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-420 Series Compact Portable 5W 450-485MHz 32CH w/FNB-83 and ATU-6D	450-485	VX-427-4-5 PKG-1 FNB-83 ATU-6D	28.0%		\$ 113.35	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-510 Series Portable 5W 38-42MHz 32CH w/CLIP-4 FNB-29A 7.2V1700mA, ATL-1B	38-42	VX-510LB PKG-1 FNB-29A ATL-1B	28.0%		\$ 143.28	YES	NO
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-510 Series Portable 5W 42-50MHz 32CH w/CLIP-4 FNB-29A 7.2V1700mA, ATL-1C	42-50	VX-510LB PKG-2 FNB-29A ATL-1C	28.0%		\$ 143.28	YES	NO
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-821 Series Intrinsically Safe Portable 5W, 150-174MHz, 16CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	150-174	ISVX-821-D0-5 PKG-1	28.0%		\$ 111.23	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-821 Series Intrinsically Safe Portable 5W, 450-512MHz, 16CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	450-512	ISVX-821-G7-5 PKG-1	28.0%		\$ 129.85	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-824 Series Intrinsically Safe Portable 5W, 150-174MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	150-174	ISVX-824-D0-5 PKG-1	28.0%		\$ 129.85	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-824 Series Intrinsically Safe Portable 5W, 400-470MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA	400-470	ISVX-824-G6-5 PKG-1	28.0%		\$ 129.85	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		SEPARATELY							
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-824 Series Intrinsically Safe Portable 5W, 450-512MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	450-512	ISVX-824-G7-5 PKG-1	28.0%		\$ 129.85	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-829 Series Intrinsically Safe Portable 5W, 150-174MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	150-174	ISVX-829-D0-5 PKG-1	28.0%		\$ 129.85	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-829 Series Intrinsically Safe Portable 5W, 400-470MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	400-470	ISVX-829-G6-5 PKG-1	28.0%		\$ 129.85	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-829 Series Intrinsically Safe Portable 5W, 450-512MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	450-512	ISVX-829-G7-5 PKG-1	28.0%		\$ 129.85	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-821 Series Portable 5W, 150-162MHz, 16CH, w/FNB-V87LI 2000mAH Battery & ATV-8B Antenna	150-162	VX-821-D0-5 PKG-1	28.0%		\$ 109.06	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-821 Series Portable 5W, 162-174MHz, 16CH, w/FNB-V87LI 2000mAH Battery	162-174	VX-821-D0-5 PKG-2	28.0%		\$ 109.06	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		& ATV-8C Antenna							
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-821 Series Portable 5W, 450-485MHz (or 512MHz w/special antenna or trim ATU-6D), 16CH, w/FNB-V87LI 2000mAH Battery & ATU-6D Antenna	450-485	VX-821-G7-5 PKG-1	28.0%		\$ 109.06	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-824 Series Portable 5W, 150-162MHz, 512CH, w/FNB-V87LI 2000mAH Battery & ATV-8B Antenna	150-162	VX-824-D0-5 PKG-1	28.0%		\$ 109.06	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-824 Series Portable 5W, 162-174MHz, 512CH, w/FNB-V87LI 2000mAH Battery & ATV-8C Antenna	162-174	VX-824-D0-5 PKG-2	28.0%		\$ 109.06	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-824 Series Portable 5W, 400-470MHz 512CH, w/FNB-V87LI 2000mAH Battery & ATU-6A Antenna (Antenna range 410 - 430 MHz)	400-470	VX-824-G6-5 PKG-1	28.0%		\$ 109.06	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-824 Series Portable 5W, 450-485MHz (or 512MHz w/special antenna or trim ATU-6D), 512CH, w/FNB-V87LI 2000mAH Battery & ATU-6D Antenna	450-485	VX-824-G7-5 PKG 1	28.0%		\$ 109.06	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-829 Series Portable 5W, 150-162MHz, 512CH, w/FNB-V87LI 2000mAH Battery & ATV-8B Antenna	150-162	VX-829-D0-5 PKG-1	28.0%		\$ 109.06	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-829 Series Portable 5W, 400-470MHz 512CH, w/FNB-V87LI 2000mAH Battery & ATU-6A Antenna (Antenna range 410 - 430 MHz)	400-470	VX-829-G6-5 PKG-1	28.0%		\$ 109.06	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-829 Series Portable 5W, 450-485MHz (or 512MHz w/special antenna or trim ATU-6D), 512CH, w/FNB-V87LI 2000mAH Battery & ATU-6D Antenna	450-485	VX-829-G7-5 PKG-1	28.0%		\$ 109.06	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-921 Series Intrinsically Safe Portable 5W, 150-174MHz, 48CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	150-174	ISVX-921-D0-5 PKG-1	28.0%			YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-921 Series Intrinsically Safe Portable 5W, 450-512MHz, 48CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	450-512	ISVX-921-G7-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-924 Series Intrinsically Safe Portable 5W, 150-174MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	150-174	ISVX-924-D0-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-924 Series Intrinsically Safe Portable 5W, 450-512MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery.	450-512	ISVX-924-G7-5 PKG-1	28.0%		\$ 145.83	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		ORDER ANTENNA SEPARATELY							
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-929 Series Intrinsicly Safe Portable 5W, 150-174MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	150-174	ISVX-929-D0-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-929 Series Intrinsicly Safe Portable 5W, 450-512MHz, 512CH, w/FNB-V92LIIS 3000mAH Battery. ORDER ANTENNA SEPARATELY	450-512	ISVX-929-G7-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-921 Series Portable 5W, 150-162MHz, 48CH, w/FNB-V87LI 2000mAH Battery & ATV-8B Antenna	150-162	VX-921-D0-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-921 Series Portable 5W, 162-174MHz, 48CH, w/FNB-V87LI 2000mAH Battery & ATV-8C Antenna	162-174	VX-921-D0-5 PKG-2	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-921 Series Portable 5W, 450-485MHz (or 512MHz w/special antenna or trim ATU-6D), 48CH, w/FNB-V87LI 2000mAH Battery & ATU-6D Antenna	450-485	VX-921-G7-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-924 Series Portable 5W, 150-162MHz, 512CH, w/FNB-V87LI 2000mAH Battery & ATV-8B Antenna	150-162	VX-924-D0-5 PKG-1	28.0%		\$ 145.83	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-924 Series Portable 5W, 162-174MHz, 512CH, w/FNB-V87LI 2000mAH Battery & ATV-8C Antenna	162-174	VX-924-D0-5 PKG-2	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-924 Series Portable 5W, 450-485MHz (or 512MHz w/special antenna or trim ATU-6D), 512CH, w/FNB-V87LI 2000mAH Battery & ATU-6D Antenna	450-485	VX-924-G7-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-929 Series Portable 5W, 150-162MHz, 512CH, w/FNB-V87LI 2000mAH Battery & ATV-8B Antenna	150-162	VX-929-D0-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-929 Series Portable 5W, 162-174MHz, 512CH, w/FNB-V87LI 2000mAH Battery & ATV-8C Antenna	162-174	VX-929-D0-5 PKG-2	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-929 Series Portable 5W, 400-470MHz, 512CH, w/FNB-V87LI 2000mAH Battery & ATU-6A Antenna	400-470	VX-929-G6-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-929 Series Portable 5W, 450-485MHz (or 512MHz w/special antenna or trim ATU-6D), 512CH, w/FNB-V87LI 2000mAH Battery & ATU-6D Antenna	450-485	VX-929-G7-5 PKG-1	28.0%		\$ 145.83	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P821 VHF 134-174MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA	134-174	ISVX-P821-D0-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		SEPARATELY							
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - Intrinsicly Safe VX-P821 UHF 400-470MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	400-470	ISVX-P821-G6-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - Intrinsicly Safe VX-P821 VHF 450-512MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	450-512	ISVX-P821-G7-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - Intrinsicly Safe VX-P821 VHF 380-450MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	380-450	ISVX-P821-G8-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - Intrinsicly Safe VX-P824 VHF 134-174MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	134-174	ISVX-P824-D0-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - Intrinsicly Safe VX-P824 VHF 400-470MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	400-470	ISVX-P824-G6-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - Intrinsicly Safe VX-P824 VHF 450-512MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	450-512	ISVX-P824-G7-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
<b>3.0 - PORTABLE RADIOS</b>	Vertex	Radio - Intrinsicly Safe VX-P824 VHF 380-450MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	380-450	ISVX-P824-G8-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		SEPARATELY							
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P829 VHF 134-174MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	134-174	ISVX-P829-D0-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P829 VHF 400-470MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	400-470	ISVX-P829-G6-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P829 VHF 450-512MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY VX-P829-G7-5 FNB-V92LIIS	450-512	ISVX-P829-G7-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P829 VHF 380-450MHz Portable Radio- INCLUDES BATTERY - ORDER ANTENNA SEPARATELY	380-450	ISVX-P829-G8-5 FNB-V92LIIS	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P821 VHF 150-163MHz Portable radio - Includes FNB-V87LI Battery and ATV-8B Antenna (order Battery Charger separately)	150-136	VX-P821-D0-5 PKG-1 FNB-V87LI ATV-8B	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P821 VHF 162-174MHz Portable radio - Includes FNB-V87LI Battery and ATV-8C Antenna (order Battery Charger separately)	162-174	VX-P821-D0-5 PKG-2 FNB-V87LI ATV-8C	28.0%		\$ 125.00	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P821 UHF 400-470MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	400-470	VX-P821-G6-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P821 UHF 450-512MHz Portable radio - Includes FNB-V87LI Battery and ATU-6D Antenna (order Battery Charger separately)	450-512	VX-P821-G7-5 PKG-1 FNB-V87LI ATU-6D	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P821 UHF 380-450MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	380-450	VX-P821-G8-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P824 VHF 150-163MHz Portable radio - Includes FNB-V87LI Battery and ATV-8B Antenna (order Battery Charger separately)	150-163	VX-P824-D0-5 PKG-1 FNB-V87LI ATV-8B	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P824 VHF 162-174MHz Portable radio - Includes FNB-V87LI Battery and ATV-8C Antenna (order Battery Charger separately)	162-174	VX-P824-D0-5 PKG-2 FNB-V87LI ATV-8C	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P824 UHF 400-470MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	400-470	VX-P824-G6-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 125.00	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P824 UHF 450-470MHz Portable radio - Includes FNB-V87LI Battery and ATU-6D Antenna (order Battery Charger separately)	450-470	VX-P824-G7-5 PKG-1 FNB-V87LI ATU-6D	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P824 UHF 380-450MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	380-450	VX-P824-G8-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P829 VHF 150-163MHz Portable radio - Includes FNB-V87LI Battery and ATV-8B Antenna (order Battery Charger separately)	150-163	VX-P829-D0-5 PKG-1 FNB-V87LI ATV-8B	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P829 VHF 162-174MHz Portable radio - Includes FNB-V87LI Battery and ATV-8C Antenna (order Battery Charger separately)	162-174	VX-P829-D0-5 PKG-2 FNB-V87LI ATV-8C	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P829 UHF 400-470MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	400-470	VX-P829-G6-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P829 UHF 450-512MHz Portable radio - Includes FNB-V87LI Battery and ATU-6D Antenna (order Battery Charger separately)	450-512	VX-P829-G7-5 PKG-1 FNB-V87LI ATU-6D	28.0%		\$ 125.00	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P829 UHF 380-450MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	380-450	VX-P829-G8-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 125.00	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P921 VHF 134-174MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	134-174	ISVX-P921-D0-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P921 UHF 400-470MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	400-470	ISVX-P921-G6-5 FNB-V92LIIS	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P921 UHF 450-512MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	450-512	ISVX-P921-G7-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P921 UHF 380-450MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	380-450	ISVX-P921-G8-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P924 VHF 134-174MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	134-174	ISVX-P924-D0-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsically Safe VX-P924 UHF 400-470MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	400-470	ISVX-P924-G6-5 FNB-V92LIIS	28.0%		\$ 153.07	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsicly Safe VX-P924 UHF 450-512MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	450-512	ISVX-P924-G7-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsicly Safe VX-P924 UHF 380-450MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	380-450	ISVX-P924-G8-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsicly Safe VX-P929 VHF 134-174MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	134-174	ISVX-P929-D0-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsicly Safe VX-P929 UHF 400-470MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	400-470	ISVX-P929-G6-5 FNB-V92LIIS	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsicly Safe VX-P929 UHF 450-512MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	450-512	ISVX-P929-G7-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - Intrinsicly Safe VX-P929 UHF 380-450MHz Portable radio - INCLUDES BATTERY - ORDER ANT SEPARATELY	380-450	ISVX-P929-G8-5	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P921 VHF 150-163MHz Portable radio - Includes FNB-V87LI Battery and ATV-8B Antenna (order Battery Charger separately)	150-163	VX-P921-D0-5 PKG-1	28.0%		\$ 153.07	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P921 VHF 162-174MHz Portable radio - Includes FNB-V87LI Battery and ATV-8C Antenna (order Battery Charger separately)	162-174	VX-P921-D0-5 PKG-2	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P921-G6-5 PKG-1	400-470	VX-P921-G6-5 PKG-1	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P921 UHF 400-470MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	400-470	VX-P921-G6-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P921 UHF 450-485MHz Portable radio - Includes FNB-V87LI Battery and ATU-6D Antenna (order Battery Charger separately)	450-485	VX-P921-G7-5 PKG-1	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P921 UHF 380-430MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	380-450	VX-P921-G8-5 PKG-1	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P924 VHF 150-163MHz Portable radio - Includes FNB-V87LI Battery and ATV-8B Antenna (order Battery Charger separately)	150-163	VX-P924-D0-5 PKG-1	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P924 VHF 162-174MHz Portable radio - Includes FNB-V87LI Battery and ATV-8C Antenna (order Battery Charger separately)	162-174	VX-P924-D0-5 PKG-2	28.0%		\$ 153.07	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P924 UHF 400-470MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	400-470	VX-P924-G6-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P924 UHF 450-485MHz Portable radio - Includes FNB-V87LI Battery and ATU-6D Antenna (order Battery Charger separately)	450-485	VX-P924-G7-5 PKG-1	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P924 UHF 380-430MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	380-450	VX-P924-G8-5 PKG-1	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P929 VHF 150-163MHz Portable radio - Includes FNB-V87LI Battery and ATV-8B Antenna (order Battery Charger separately)	150-163	VX-P929-D0-5 PKG-1	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P929 VHF 162-174MHz Portable radio - Includes FNB-V87LI Battery and ATV-8C Antenna (order Battery Charger separately)	162-174	VX-P929-D0-5 PKG-2	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P929 UHF 400-470MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	400-470	VX-P929-G6-5 PKG-1 FNB-V87LI ATU-6A	28.0%		\$ 153.07	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P929 UHF 450-485MHz Portable radio - Includes FNB-V87LI Battery and ATU-6D Antenna (order Battery Charger separately)	450-485	VX-P929-G7-5 PKG-1	28.0%		\$ 153.07	YES	YES
3.0 - PORTABLE RADIOS	Vertex	Radio - VX-P929 UHF 380-430MHz Portable radio - Includes FNB-V87LI Battery and ATU-6A Antenna (order Battery Charger separately)	380-450	VX-P929-G8-5 PKG-1	28.0%		\$ 153.07	YES	YES
6.0 - TRUNKED RADIO	Vertex	Radio - ISVX-427A-4-5 LTR(4Key) FNB-V57IS	N/A	ISVX-427A-4-5 LTR(4Key) FNB-V57IS	28.0%		\$ 100.00	YES	YES
6.0 - TRUNKED RADIO	Vertex	Radio - VHF, 16 Key with FNB-83 Battery, Antenna and VAC-10B Charger. Volume discounts available for orders of 10 or more.	N/A	VX-424A(16key) LTR Promo-Basic	28.0%		\$ 100.00	YES	YES
6.0 - TRUNKED RADIO	Vertex	Radio - VHF, 16 Key with FNB-V67Li Battery, Antenna and VAC-810B Rapid Charger. Volume discounts available for orders of 10 or more.	N/A	VX-424A(16key)LTR Promo-High Performance	28.0%		\$ 100.00	YES	YES
6.0 - TRUNKED RADIO	Vertex	Radio - VHF, 4 Key with FNB-83 Battery, Antenna and VAC-10B Charger. Volume discounts available for orders of 10 or more.	N/A	VX-424A(4key) LTR Promo-Basic	28.0%		\$ 100.00	YES	YES
6.0 - TRUNKED RADIO	Vertex	Radio - VHF, 4 Key with FNB-V67Li Battery, Antenna and VAC-810B Rapid Charger. Volume discounts available for orders of 10 or more.	N/A	VX-424A(4key) LTR Promo-High Performance	28.0%		\$ 100.00	YES	YES
6.0 - TRUNKED RADIO	Vertex	Radio - UHF, 16 Key with FNB-83 Battery, Antenna and VAC-10B Charger. Volume	N/A	VX-427A(16key) LTR Promo-Basic	28.0%		\$ 100.00	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
		discounts available for orders of 10 or more.							
<b>6.0 - TRUNKED RADIO</b>	Vertex	Radio - UHF, PassPort, 16 Key with FNB-83 Battery, Antenna and VAC-10B Charger. Volume discounts available for orders of 10 or more.	N/A	VX-427A(16key) PASSPORT Basic-PKG	28.0%		\$ 100.00	YES	YES
<b>6.0 - TRUNKED RADIO</b>	Vertex	Radio - UHF, 16 Key with FNB-V67Li Battery, Antenna and VAC-810B Rapid Charger. Volume discounts available for orders of 10 or more.	N/A	VX-427A(16key)LTR Promo-High Performance	28.0%		\$ 100.00	YES	YES
<b>6.0 - TRUNKED RADIO</b>	Vertex	Radio - UHF, PassPort, 16 Key with FNB-V67Li Battery, Antenna and VAC-810B Rapid Charger. Volume discounts available for orders of 10 or more.	N/A	VX-427A(16key)PASSPORT High Performance-PKG	28.0%		\$ 100.00	YES	YES
<b>6.0 - TRUNKED RADIO</b>	Vertex	Radio - UHF, 4 Key with FNB-83 Battery, Antenna and VAC-10B Charger. Volume discounts available for orders of 10 or more.	N/A	VX-427A(4key) LTR Promo Basic	28.0%		\$ 100.00	YES	YES
<b>6.0 - TRUNKED RADIO</b>	Vertex	Radio - UHF, 4 Key with FNB-67Li Battery, Antenna and VAC-810B Rapid Charger. Volume discounts available for orders of 10 or more.	N/A	VX-427A(4key) LTR Promo-High Performance	28.0%		\$ 100.00	YES	YES
<b>6.0 - TRUNKED RADIO</b>	Vertex	Radio - UHF, PassPort, 4 Key with FNB-83 Battery, Antenna and VAC-10B Charger. Volume discounts available for orders of 10 or more.	N/A	VX-427A(4key) PASSPORT Basic-PKG	28.0%		\$ 100.00	YES	YES



## VERTEX PRODUCT LIST

SECTION - CATEGORY	MANUFACTURE	MODEL DESCRIPTION	FREQUENCY BAND	PART NUMBER	MSRP DISCOUNT PERCENTAGE	OPTIONS MSRP DISCOUNT PERCENTAGE <small>(Purchased with model)</small>	FLAT RATE REPAIR COST AFTER WARRANTY	PUBLIC SAFETY RATED RADIO	NARROW BAND CAPABLE
6.0 - TRUNKED RADIO	Vertex	Radio - UHF, PassPort, 4 Key with FNB-V67Li Battery, Antenna and VAC-810B Rapid Charger. Volume discounts available for orders of 10 or more.	N/A	VX-427A(4key) PASSPORT High Performance-PKG	28.0%		\$ 100.00	YES	YES
6.0 - TRUNKED RADIO	Vertex	Radio - VX-2200 Series Mobile 50W 134-174MHz w/MH-67A8J	134-174	VX-2200-AD0H LTR PKG-1 MH-67A8J	28.0%		\$ 100.00	NO	YES
6.0 - TRUNKED RADIO	Vertex	Radio - VX-2200 Series Mobile 50W 450-512MHz w/MH-67A8J	450-512	VX-2200-AG7H LTR PKG-1 MH-67A8J	28.0%		\$ 100.00	NO	YES
6.0 - TRUNKED RADIO	Vertex	Radio - VX-2200 Series PassPort Mobile 50W 450-512MHz w/MH-67A8J	450-512	VX-2200-AG7H PAS PKG-1 MH-67A8J	28.0%		\$ 100.00	NO	YES



## VERTEX PROFESSIONAL SERVICES LIST

DESCRIPTION OF SERVICES	MANUFACTURE	CONTRACTOR DISCOUNT PERCENT	MOST CURRENT CONTRACTOR LIST PRICE	Rate Type	Comments
Service Rate - IN-HOUSE SHOP REPAIR	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 89.00	Hourly	
Service Rate - FIELD REPAIR	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 156.00	Hourly	
Service Rate - PROGRAMMING	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 74.00	Fixed	Per radio
Service Rate - Afterhours & Holidays	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 148.00	Hourly	
BASIC Installation Rate - under dash	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 148.00	Hourly	
BASIC Installation Rate - truck mount	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 148.00	Hourly	
Installation Rate - Horn alert, Accessories & Options	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 119.00	Hourly	
Installation Rate - Light Bar, Siren	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 119.00	Hourly	
Installation Rate - REPEATER / BASE / CONTROL (simple antenna instal)	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 289.00	Hourly	
Training - In-house & customer location	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 148.00	Hourly	Specialized per request
Radio Rentals	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 10.50	Fixed	Per unit / per day
Communication Towers - Space rentals	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 1.50	Fixed	Per foot of height, max wind-load of 1.6 sq. ft
System Design -	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 148.00	Hourly	
Consultation Rate - FAA Permits	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 148.00	Hourly	
Consultation Rate - FCC Licensing Preparation & Coordination	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 148.00	Hourly	
Consultation Rate - Tower Construction Federal & State Requirements / Reporting	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 178.00	Hourly	
Consultation Rate - Tower Construction Local Requirements / Reporting	Vertex Standard & Authorized Vertex Standard Dealers under this contract.	10.0%	\$ 178.00	Hourly	



**Attachment B – Software License Agreement**

**SOFTWARE LICENSE AGREEMENT**

This Attachment B, Software License Agreement ("Agreement") is between Vertex Standard USA, Inc., ("Vertex"), and the State of Michigan ("Licensee").

For good and valuable consideration, the parties agree as follows:

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6.3. Warranty claims are described in the Primary Agreement.

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Agreement, in which case this Agreement and Licensee's right to use the Software and Documentation may be terminated immediately upon notice by Vertex.

8.2 Within thirty (30) days after termination of this Agreement, Licensee must certify in writing to Vertex that all copies of the Software have been removed or deleted from the Designated Products and that all copies of the Software and Documentation have been returned to Vertex or destroyed by Licensee and are no longer in use by Licensee.

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**Section 10 CONFIDENTIALITY**

Licensee acknowledges that the Software and Documentation contain Vertex's valuable proprietary and Confidential Information and are Vertex's trade secrets, and that the provisions in the Primary Agreement concerning Confidential Information apply.

**Section 11 LIMITATION OF LIABILITY**

The Limitation of Liability provision is described in the Primary Agreement.

**Section 12 NOTICES**

Notices are described in the Primary Agreement.

**Section 13 GENERAL**

13.1. COPYRIGHT NOTICES. The existence of a copyright notice on the Software will not be construed as an admission or presumption of publication of the Software or public disclosure of any trade secrets associated with the Software.

13.2. COMPLIANCE WITH LAWS. Licensee acknowledges that the Software is subject to the laws and regulations of the United States and Licensee will comply with all applicable laws and regulations, including export laws and regulations of the United States. Licensee will not, without the prior authorization of Vertex and the appropriate governmental authority of the United States, in any form export or re-export, sell or resell, ship or reship, or divert, through direct or indirect means, any item or technical data or direct or indirect products sold or otherwise furnished to any person within any territory



for which the United States Government or any of its agencies at the time of the action, requires an export license or other governmental approval. Violation of this provision is a material breach of this Agreement.

**13.3. ASSIGNMENTS AND SUBCONTRACTING.**

Assignments and Subcontracting are described in the Primary Agreement.

**13.4. GOVERNING LAW.** This Agreement is governed by the laws of the United States to the extent that they apply and otherwise by the internal substantive laws of the State to which the Software is shipped if Licensee is a sovereign government entity, or the internal substantive laws of the State of Illinois if Licensee is not a sovereign government entity. The terms of the U.N. Convention on Contracts for the International Sale of Goods do not apply. In the event that the Uniform Computer Information Transaction Act, any version of this Act, or a substantially similar law (collectively "UCITA") becomes applicable to a party's performance under this Agreement, UCITA does not govern any aspect of this Agreement or any license granted under this Agreement, or any of the parties' rights or obligations under this Agreement. The governing law will be that in effect prior to the applicability of UCITA.

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**13.6. SURVIVAL.** Sections 4, 5, 6.3, 7, 8, 9, 10, 11 and 13 survive the termination of this Agreement.

**13.7. ORDER OF PRECEDENCE.** In the event of inconsistencies between this Exhibit and the Primary Agreement, the parties agree that this Exhibit prevails, only with respect to the specific subject matter of this Exhibit, and not the Primary Agreement or any other exhibit as it applies to any other subject matter.

**13.8 SECURITY.** Because Vertex is a joint venture in which Motorola, Inc. owns a majority interest, to the extent applicable Motorola, Inc.'s Information Assurance Policy addresses the issue of security. Vertex uses reasonable means in the design and writing of its own Software and the acquisition of third party Software to limit Security Vulnerabilities. While no software can be guaranteed to be free from Security Vulnerabilities, if a Security Vulnerability is discovered, Vertex will take the steps set forth in Section 6 of this Agreement.



**Exhibit 1 – Additional Ordering Requirements**

The State has established an internal policy that enables State agencies to use their delegated authority to purchase radio communication equipment, accessories, and services.

Actual radio purchases and any communication service or accessory purchased off a State contract (BPO) must first have MDIT/MPSCS approval obtained through ITRAC.

The following items may be purchased by agencies within their delegated authority and are NOT required to be submitted through ITRAC for MDIT/MPSCS approval:

- Communication accessories purchased using the P-Card
- Communication accessories or service purchases using a Direct Purchase Order DA-DP

The following items must be submitted through ITRAC for MPSCS approval:

- All radio purchases (whether or not off contract)
- All communication accessories and services purchased off a contract (BPO)

All radio accessories and services purchased by issuing a Direct Purchase Order and/or P Card may still leverage the State contract (BPO) prices.

Once approval is obtained from MPSCS, agencies are responsible for creating their own purchase orders, receiving the product, and paying the invoices.

**Contractor Responsibilities:**

The Contractor shall ensure that all orders received that require approval from MPSCS have an ITRAC reference number included in Line Item #1 description field of the purchase order. The contractor is not authorized to process the order without this ITRAC #. *(Note: This does not apply to MiDEAL purchases)*

If the Contractor receives an order that requires MPSCS approval without an ITRAC reference number they shall provide the requesting agency and MPSCS with notification that the request cannot be fulfilled and the ITRAC reference number must be obtained prior to order fulfillment.