State of Michigan Laptop Comparison Guide
As of 10/12/2022

For the purposes of this document, we define a **laptop** as a device which has a permanently attached keyboard and screen that allows for portable use. (Please note: If you are looking for a more *ruggedized* device, please consult the **Rugged Device Standards** document.) This document provides guidance on the system units that are available in the laptop category in SIGMA.

With the recent changes to Intel processors, all new State of Michigan models will have quad-core processors. This means that the new i5 processors are **faster** than last year's i7 models. We will be approving i7 processors and increased storage on new orders without an Exception Request, unless it is determined that an image change would be required. Agencies may not purchase less than 256GB storage.

Accessories for laptops are at the end of the document, after the Comparison Table.

NOTE: Numbers listed in this document (LXX) are SIGMA numbers.

How to decide which system unit is best for you

The decision will be based primarily on your business needs, but the following factors may help you decide on the device that is the best fit for you:

- If you are looking for a laptop with additional processing power and the option for multiple drives, select the Dell CAD/GIS/Technical laptop.
- Otherwise, select any model that suits your needs and tastes.

Dell Latitude 5430 (L221) - $1150.00

This laptop comes with a 4-year, next business day, KYHD warranty.

Technical Specifications:

- Intel® Core™ i5 1245U Vpro
- 16 Gigabyte RAM (memory)
- 512 Gigabyte solid-state hard drive (storage)
- 14" HD (1920x1080) Anti-Glare **TOUCHSCREEN**
- Backlit Keyboard
- FHD + IR Camera with Mic
- Temporal Noise Reduction
- Camera Shutter
- 1 x RJ-45
- 1 x USB 3.2 Gen 1 port
- 1 x USB 3.2 Gen 1 port with PowerShare
- 2 x Thunderbolt 4 with Power Delivery and DisplayPort (USB Type-C)
- 1 x HDMI 2.0 port
- 1 x Global Headset Jack
- 1 x uSD 4.0 Memory Card Reader
- Dimensions - 0.76" x 12.65" x 8.35"
- Weight – 3.01 lbs starting weight
- 4-year, pro-support, KHHD warranty

Ports & Slots

1. uSD 4.0 Memory Card Reader
2. Global Headset Jack
3. USB 3.2 Gen 1
4. USB 3.2 Gen 1 with Powershare
5. HDMI 2.0

6. RJ45
7. Wedge Lock Slot
8. 2 x Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™)
Smart Card Reader (optional, not pictured)

Dell Latitude 5530 (L222) - $1170.00

Technical Specifications:

- Intel® Core™ i5 1245U Vpro
- 16 Gigabyte RAM (memory)
- 512 Gigabyte solid-state hard drive (storage)
- 15.6" HD (1920x1080) **TOUCHSCREEN** Anti-Glare
- Backlit Keyboard
- FHD IR Camera & Mic & Camera Shutter
- Temporal Noise Reduction
- 1 x RJ-45
- 1 x uSD 4.0 Memory card reader
- 1 x USB 3.2 Gen 1 port
- 1 x USB 3.2 Gen 1 port with PowerShare
- 2 x USB Type C Thunderbolt 4 ports with Power Delivery & DisplayPort
- 1 x HDMI 2.0 port
- 1 x Universal audio jack
- Dimensions - 0.82" x 14.09" x 9.19"
- Weight – 3.50 lbs.
- 4-year, pro-support, KYHD warranty

Ports & Slots

1. uSD 4.0 Memory card reader
2. Universal Audio Jack
3. USB 3.2 Gen 1
4. USB 3.2 Gen 1 with Powershare
5. HDMI 2.0
6. RJ45
7. Wedge Shaped Lock slot
8. 2 x USB Type C Thunderbolt™ 4.0 with Power Delivery & DisplayPort"
9. Contacted SmartCard Reader (optional)

External uSIM card tray (optional, not pictured on back) - eSim capable

Dell Latitude 7430 (L223) - $1615.00

Technical Specifications:

- Intel® Core™ i7 1265U Vpro
- 16 Gigabyte RAM (memory)
- 512 Gigabyte solid-state hard drive (storage)
- 14.0" FHD (1920x1080) **TOUCHSCREEN**
- Backlit Keyboard
- FHD IR Camera & Mic & Camera + Intelligent Privacy & Camera Shutter
- WWAN
- Temporal Noise Reduction
- 1 x USB 3.2 Gen 1 port with PowerShare
- 2 x Thunderbolt 4 with Power Delivery and DisplayPort (USB Type-C)
- 1 x HDMI 2.0 port
- 1 x Universal audio jack
- Dimensions - 0.68" x 12.65" x 8.22"
- Weight – 2.69 lbs. starting weight
- 4-year, pro-support, KYHD warranty

Ports & Slots

1. uSIM card slot (optional) (WWAN only)
2. Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™)
3. USB 3.2 Gen 1 with Power share
4. HDMI 2.0

5. Wedge-shaped Lock Slot
6. Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™)
7. Universal Audio Jack
8. Smart Card Reader (optional)

Dell Mobile Precision Latitude 7670 (L220) - $2350.00

Technical Specifications:

- Intel® Core™ i7 12850HX
- 32 Gigabyte RAM (memory)
- 512 Gigabyte solid-state hard drive (storage)
- 16.0" WLED FHD+ (1920x1200) anti-glare non-touch
- Backlit Keyboard
- IR Camera/Mic
- Intel Wi-Fi 6E (6GHz) with Bluetooth wireless
- 1 x RJ-45 10/100/1000
- 1 x USB 3.2 Type-C port with DP-alt mode
- 2 x Thunderbolt 4 with PowerShare
- 2 x USB 3.2 Type-A with PowerShare
- 1 x HDMI 2.1 port
- 1 x Universal audio jack
- 1 x SD Reader
- Dimensions – 1.09" x 14.02" x 10.18"
- Weight – 5.90 lbs.
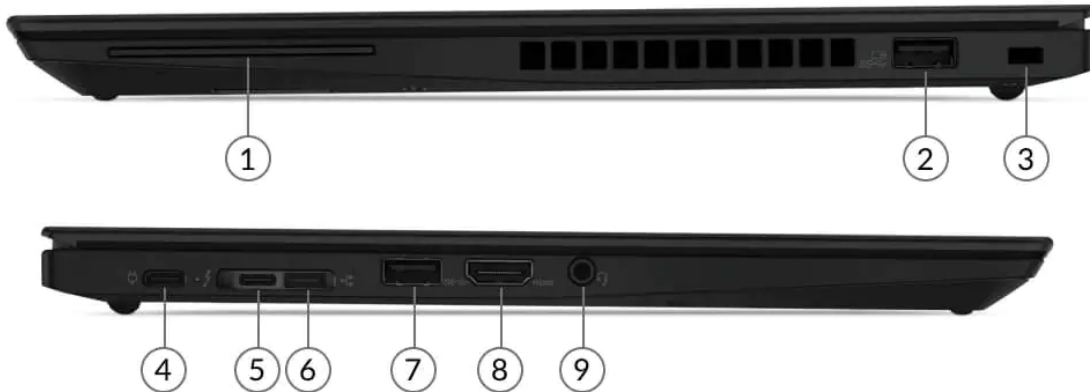- 4-year, pro-support, KYHD warranty

Ports & Slots

1. SD Reader
2. Universal audio jack
3. USB 3.2 Gen 2 Type-C port with DP-alt mode
4. USB 3.2 Type-A with PowerShare
5. Wedge lock slot

6. 7.4mm power connector
7. RJ-45 10/100/1000
8. HDMI 2.1
9. USB 3.2 Type-A with PowerShare
10. (2) Thunderbolt 4 with PowerShare
11. Optional Smart Card Reader

Lenovo ThinkPad T14s G3 (L218) – $1322.04

Technical Specifications:

- Intel i5-1245U vPro Processor
- Dimensions: 12.50" x 8.93" x 0.65"
- Weight: 2.70 lbs.
- 512GB SSD
- 16GB system memory
- Screen: 14" Anti-Glare Touchscreen
- Resolution: 1920 x 1200
- Backlit Keyboard
- 720p HD Camera with Microphone
- Wi-Fi
- WLAN USB-C to ethernet cable included
- **WWAN (cell connection) only available through custom order**
- 1 x USB-C power input
- 1 x USB-C Thunderbolt 3
- 1 x HDMI
- 1 x USB-A 3.2 Gen 1 (1 Always On)
- 1 x USB 3.2 Gen 1
- 1 x Headphone/mic combo
- Kensington Nano Security Slot
- Webcam Privacy Shutter
- 4-year Next Business Day + KYHD (Keep Your Hard Drive)

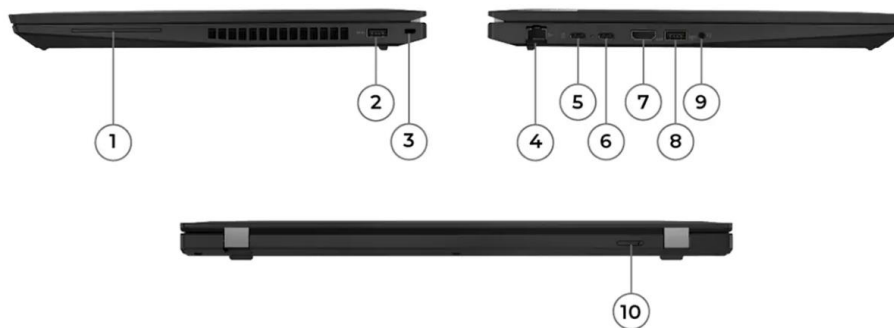| 1	Smart card reader	6	Network extension for Ethernet/side mechanical docking
2	USB 3.2 Gen 1 (always on)	7	USB 3.2 Gen 1
3	Kensington lock slot	8	HDMI
4	USB-C power input	9	Headphone / mic combo
5	USB-C Thunderbolt™ 3		

Lenovo ThinkPad T16 G1 (L219) – $1318.98

Technical Specifications:

- Intel i5-1245U vPro Processor
- Dimensions: 14.25" x 10.06" x 0.81"
- Weight: 3.61lbs starting weight
- 512GB SSD
- 16GB system memory
- 1080P Full HD camera with microphone
- 16.0" Anti-glare Touchscreen
- Resolution: 1920 x 1200
- Wi-Fi
- WLAN
- **WWAN (cell connection) only available through custom order**
- Backlit Keyboard
- Number Pad
- 2x USB-C 3.2 Gen 2
- 2x USB-A 3.2 Gen 1
- 1x HDMI
- 1x RJ45
- 1x Headphone/mic combo
- 1x Kensington Nano Lock Slot
- Webcam Privacy Shutter
- 4-year Next Business Day + KYHD (Keep Your Hard Drive)

Ports & Slots

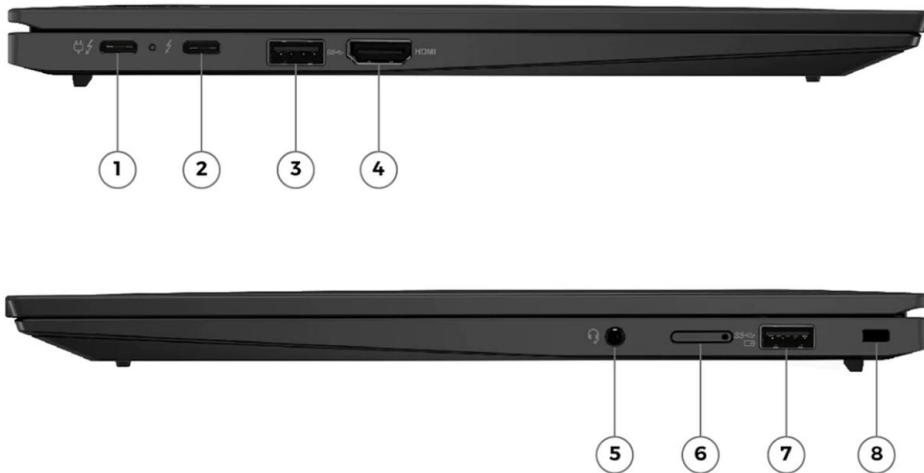| 1	Optional Smart card reader	2	USB-A 3.2 Gen 1
3	Kensington nano lock slot	4	RJ45
5	USB-C 3.2 Gen 2	6	USB-C 3.2 Gen 2
7	HDMI	8	USB-A 3.2 Gen 1
9	Headphone / mic combo	10	SIM card slot

Lenovo X1 Carbon G10 (L217) – $1698.74

Technical Specifications:

- Intel i7-1265U vPro Processor
- Dimensions: 12.43" x 8.76" x 0.60"
- Weight: 2.48 lbs. starting weight
- 512GB SSD
- 16GB system memory
- 1920 x 1200 14" Touchscreen
- 1080 Full HD Camera & Mic
- Wi-Fi
- WLAN (Wired Ethernet requires dongle not included)
- **WWAN (cell connection) only available through custom order**
- Backlit keyboard
- 1x USB-C Thunderbolt 4 power in
- 1x USB-C Thunderbolt 4
- 1x HDMI 2.0b
- 2x USB-A 3.2 Gen 1
- 1x Headphone/mic combo
- 1x Kensington Lock Slot
- 4-year Next Business Day + KYHD (Keep Your Hard Drive)

Ports & Slots

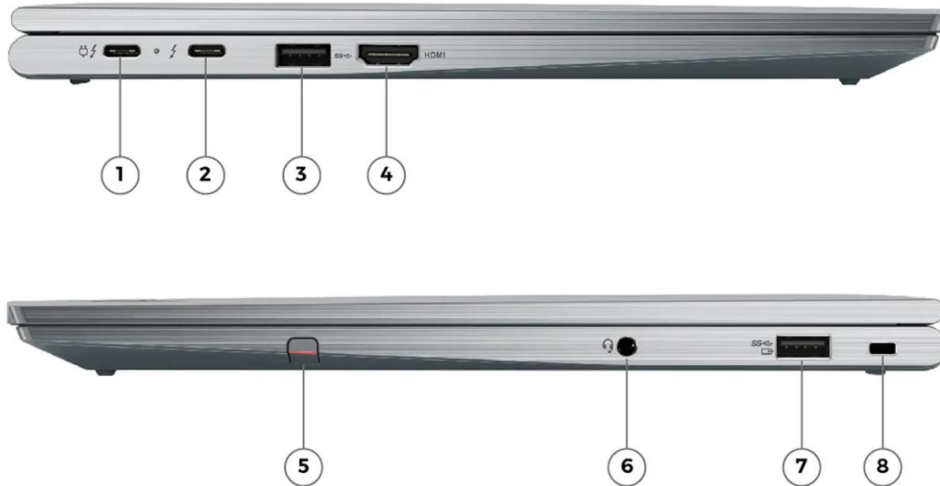|		
1 USB-C Thunderbolt™ 4 / Power in	2 USB-C Thunderbolt™ 4	
3 USB-A 3.2 Gen 1	4 HDMI 2.0b	
5 Headphone / mic combo	6 Optional: Nano SIM slot	
7 USB-A 3.2 Gen 1	8 Kensington lock slot	

Lenovo X1 Yoga (L216) – $1781.43

Technical Specifications:

- Intel i7-1265U vPro Processor
- Dimensions: 12.32" x 8.77" x 0.59"
- Weight: 3.0 lbs.
- 512GB SSD
- 16GB system memory
- Screen: 14" Touchscreen
- Wi-Fi
- WLAN (Wired Ethernet requires dongle not included)
- **WWAN (cell connection) only available through custom order**
- 1080P Full HD Camera & Mic
- Backlit keyboard
- 1x USB-C Thunderbolt 4/Power in
- 1x USB-C Thunderbolt 4
- 1x HDMI 2.0b
- 2x USB-A 3.2 Gen 1
- 1x Headphone/mic combo
- 1x Kensington Lock Slot
- 4-year Next Business Day + KYHD (Keep Your Hard Drive)

Ports & Slots

1	USB-C Thunderbolt™ 4 / Power in	2	USB-C Thunderbolt™ 4
3	USB-A 3.2 Gen 1	4	HDMI 2.0b
5	Lenovo Integrated Pen	6	Headphone / mic combo
7	USB-A 3.2 Gen 1	8	Kensington lock slot

COMPARISON

	Dell Latitude 5430	Dell Latitude 5530	Dell Latitude 7430	Dell Mobile Precision 7670
SIGMA Number	L221	L222	L223	L220
Processor	i5	i5	i7	i7
Storage	512 GB SSD	512 GB SSD	512 GB SSD	512 GB SSD
Memory	16GB	16GB	16GB	32GB
Dock	Without	Without	Without	Without
Touchscreen	Yes	Yes	Yes	No
Screen Size	14"	15.6"	14'	16"
Numeric Keypad	No	Yes	No	Yes
Backlit Keyboard	Yes	Yes	Yes	Yes
BUS Ports	1x USB 3.2 Gen 1 port, 1x USB 3.2 Gen 1 port with PowerShare, 2x Thunderbolt 4 ports with Power Delivery and DisplayPort (USB Type-C)	1x USB 3.2 Gen 1 port, 1x USB 3.2 Gen 1 port with PowerShare, 2x USB Type-C Thunderbolt 4 ports Power Delivery & DisplayPort	2x Thunderbolt 4 with Power Delivery and DisplayPort (USB Type-C), 1x USB 3.2 Gen 1 with Power Share	2x Thunderbolt 4 with PowerShare, 1x USB 3.2 Gen 2 Type-C port with DP-alt mode, 2x USB 3.2 Type-A with PowerShare,
Display Ports	1x HDMI 2.0	1x HDMI 2.0	1x HDMI 2.0	1x HDMI 2.1
Addl. Port	1x RJ-45, 1x global headset jack	1x RJ-45, 1x universal audio jack	1x universal audio jack	1x universal audio jack, 1x RJ-45 10/100/1000
Warranty	4-year	4-year	4-year	4-year

	Lenovo ThinkPad T14s G3	Lenovo ThinkPad T16 G1	Lenovo X1 Carbon G10	Lenovo X1 Yoga G7
SIGMA Number	L218	L219	L217	L216
Processor	i5	i5	i7	i7
Storage	512 GB SSD	512 GB SSD	512 GB SSD	512 GB SSD
Memory	16GB	16GB	16GB	16GB
Dock	Without	Without	Without	Without
Touchscreen	Yes	Yes	Yes	Yes
Screen Size	14"	15.6"	14"	14"
Numeric Keypad	No	Yes	No	No
Backlit Keyboard	Yes	Yes	Yes	Yes
USB Ports	1x USB 3.2 Gen 1 (always on), 1x USB-C power input, 1x USB-C Thunderbolt 3, 1x USB 3.2 Gen 1	2x USB-C 3.2 Gen 2, 2x USB-A 3.2 Gen 1	1x USB-C Thunderbolt 4 power in, 1x USB-C Thunderbolt 4, 2x USB-A 3.2 Gen 1	1x USB-C Thunderbolt 4 power in, 1x USB-C Thunderbolt 4, 2x USB-A 3.2 Gen 1
Display Ports	1x HDMI	1x HDMI 2.0	1x HDMI 2.0b	1x HDMI 2.0b
Addl. Port	1x headphone/mic combo	1x RJ45, 1x headphone/mic combo	1x headphone/mic combo	1x headphone/mic combo
Warranty	4-year	4-year	4-year	4-year

ACCESSORIES

- **Dell Mobile Pro Wireless Mouse MS5120W (D131)** – Black, wireless, - 2.4 GHz or Bluetooth 5.04, 3-year advanced exchange.
- **Logitech Wireless Keyboard (D120)** – Logitech Wireless Keyboard K270 – 2.4GHz.
- **Wireless Mouse (D121)** – WM126, black, 1-year warranty.
- **Dell N17 Combination lock for Dell Laptops (C16)** - works with the following models: Dell Latitude 5400 and Dell Latitude 5500.
- **Dell Wireless Keyboard and Mouse (D45)** – Wireless keyboard and mouse bundle.
- **Dell Auto/Air DC Adapter (L12)** – An all-in-one, DC device that will both power your laptop as well as charge its battery.
- **Dell USB Optical Mouse (L21) –** Wireless optical mouse.
- **Dell External DVD/RW Drive (L96) -** The Dell External USB Slim DVD +/– RW Optical Drive is a plug and play disc burning and disc playing solution that you can use with a USB port.
- **Targus CityLite 15.6 inch Topload Case (L148) –** Fits up to 15.6 inch widescreen laptop, color black, 3.5lbs**.**
- **Kensington SP15 15.6 inch laptop backpack case (L146)**
- **Dell Slim Briefcase (L152) –** Fits 15-inch laptop
- **Dell Latitude 7200 2 in 1 keyboard (L168)**
- **Dell Active Pen (T80)**
- **StarTech 3-port USB Hub (T31) -** USB 3.0 Hub with Gigabit Ethernet Adapter.