



State of Michigan Laptop Comparison Guide

As of 10/01/2021

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 5420 (L203) - \$1015.00 no dock

Dell Latitude 5420 (L204) - \$1139.00 with dock

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

Technical Specifications:

- Intel® Core™ i5 1145G7 Vpro
- 16 Gigabyte RAM (memory)
- 512 Gigabyte solid-state hard drive (storage)
- 14" HD (1920x1080) **TOUCHSCREEN** Anti-Glare
- Backlit Keyboard
- HD + IR Camera Bezel with Mic
- Intel Wi-Fi 6 AX201 2x2 .11ax 16MHz + Bluetooth 5.1
- 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 ports with DisplayPort Alt Mode/USB4/Power Delivery
- 1 x HDMI 2.0 port
- 1 x Universal audio port
- Dimensions - 0.76" x 12.65" x 8.35"
- Weight – 3.03 lbs.
- 4-year, pro-support, KHHD warranty



Ports & Slots

1. uSD 4.0 Memory Card Reader | 2. Global Headset Jack | 3. USB 3.2 Powershare | 4. USB 3.2 | 5. HDMI 2.0 | 6. RJ45 | 7. Wedge Lock Slot | 8. Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™) | 9. Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™) | 10. SmartCard reader (optional) | 11. External eSim slot (optional, not pictured on back)

Dell Latitude 5520 (L205) - \$1027.00 no dock

Dell Latitude 5520 (L206) - \$1151.00 with dock

Technical Specifications:

- Intel® Core™ i5 1145G7 Vpro
- 16 Gigabyte RAM (memory)
- 512 Gigabyte solid-state hard drive (storage)
- 15.6" HD (1920x1080) **TOUCHSCREEN** Anti-Glare
- Backlit Keyboard
- HD + IR Camera Bezel with Mic
- Intel Wi-Fi 6 AX201 2x2 .11ax 16MHz + Bluetooth 5.1
- 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 ports with DisplayPort Alt Mode/USB4/Power Delivery for 11th Generation Intel Core i3/i5/i7 processors
- 2 x Thunderbolt 3 ports with DisplayPort Alt Mode/USB3.2 Gen2/Power Delivery for 10th Gen Intel Core i5/i7 processors
- 1 x HDMI 2.0 port
- 1 x HDMI 1.4 port
- 1 x Universal audio port
- Dimensions - 0.78" 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. Global Headset Jack | 3. USB 3.2 Powershare | 4. USB 3.2 | 5. HDMI 2.0 | 6. RJ45 | 7. Wedge Lock Slot | 8. Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™) | 9. Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™) | 10. SmartCard reader (optional) | 11. External eSim slot (optional, not pictured on back)

Dell 7420 2-in-1 - no docking station (L195) – \$1445.00

Technical Specifications:

- Intel i7-1185G7
- Dimensions: 12.65" x 8.22" x 0.67"
- Weight: 3.0 lbs.
- 512GB SSD
- 16GB system memory
- Screen: 14" Anti-glare
- Resolution: 1920 x 1080
- System memory: 16GB
- 1x USB 3.2 Gen 1 with Powershare
- 2x Thunderbolt 4 with Power Delivery and DisplayPort (USB Type-C)
- 1x HDMI 2.0
- 1x microSD card slot
- 1x Wedge-shaped lock slot
- 1x Universal Audio Jack
- 4-year Next Business Day + KYHD (Keep Your Hard Drive)



-See below for ports and slots



Ports & Slots

1. uSD 4.0 Memory Card Reader | 2. uSIM card slot (optional) (WWAN only) | 3. Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™) | 4. USB 3.2 Gen 1 with Power share | 5. HDMI 2.0 | 6. Wedge-shaped Lock Slot | 7. Thunderbolt™ 4 with Power Delivery and DisplayPort (USB Type-C™) | 8. Universal Audio Jack | 9. Smart Card Reader (optional)

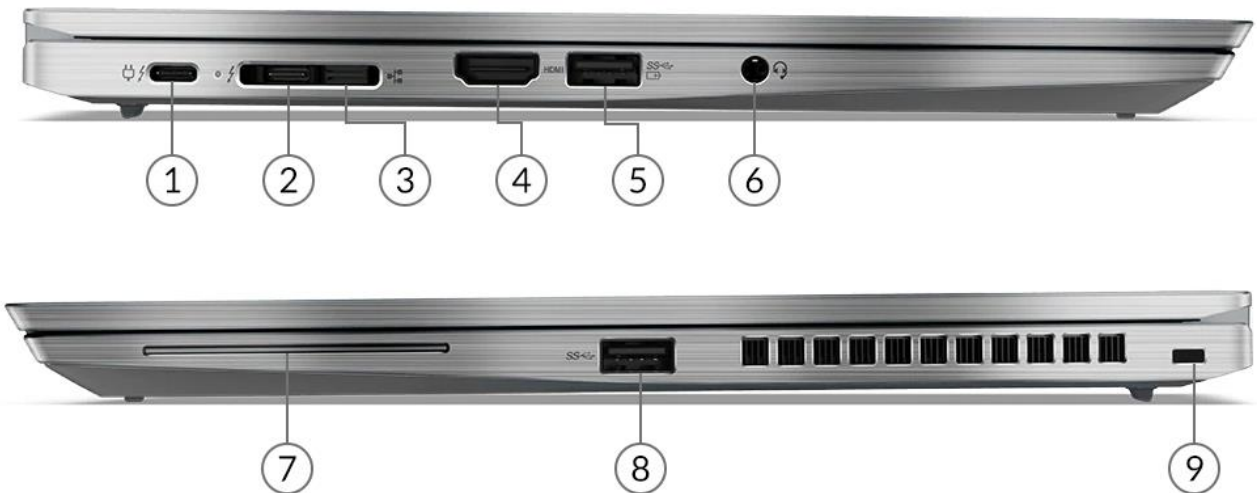
Lenovo ThinkPad T14s (L199) – \$1312.57

Technical Specifications:

- Intel i5-1145G7 vPro Processor
- Dimensions: 12.89" x 8.22" x 0.63"
- Weight: 2.83 lbs.
- 512GB SSD
- 16GB system memory
- Screen: 14" Anti-glare Multitouch
- Resolution: 1920 x 1080
- System memory: 16GB
- IR and FHD Camera with Microphone
- 1x USB-C Thunderbolt 4 power in
- 1x USB-C Thunderbolt 4
- 1x HDMI 2.0
- 2x USB-A 3.2 Gen 1
- 1x Headphone/mic combo
- 1x Kensington Nano Security 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. Network extension for Ethernet / side-mechanical docking
- 4. HDMI 2.0
- 5. USB-A 3.2 Gen 1
- 6. Headphone/mic combo
- 7. Optional Smart card reader
- 8. USB-A 3.2 Gen 1
- 9. Kensington Nano Security Slot™

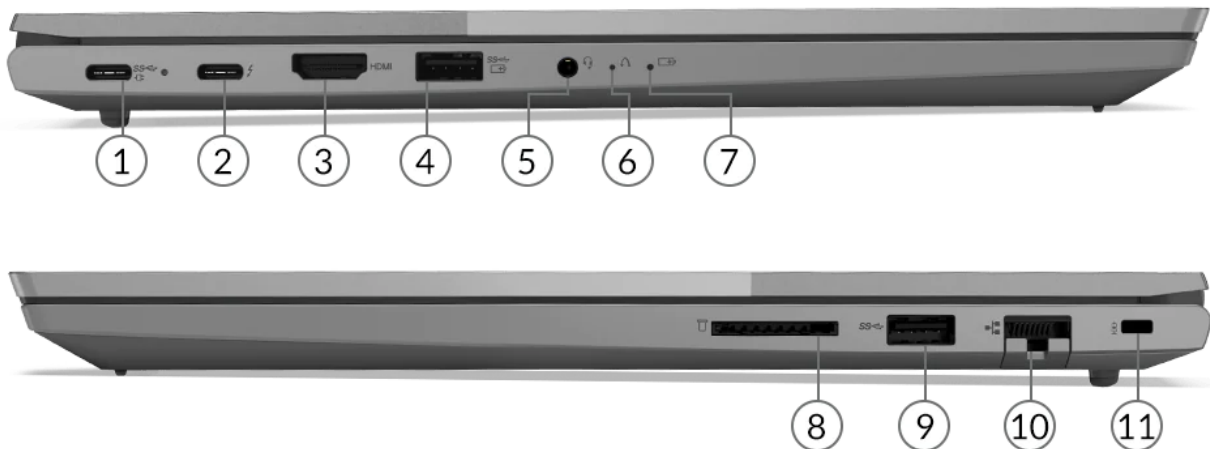
Lenovo ThinkPad T15 (L200) – \$1270.37

Technical Specifications:

- Intel i5-1145G7 vPro Processor
- Dimensions: 14.05" x 9.25" x 0.74"
- Weight: 3.75 lbs.
- 512GB SSD
- 16GB system memory
- Screen: 15.6" Anti-glare Multitouch
- Resolution: 1920 x 1080
- System memory: 16GB
- 1x USB-C Thunderbolt 4
- 1x USB-C 3.2 Gen 2 (DP/PD)
- 1x USB-A 3.2 Gen 1 (always on)
- 1x USB-A 3.2 Gen 1
- 1x HDMI 2.0
- 1x RJ45
- 1x Headphone/mic combo
- 1x Kensington NanoSaver Slot
- 4-year Next Business Day + KYHD (Keep Your Hard Drive)



Ports/Slots



- 1. USB-C 3.2 Gen 2 (DP/PD)
- 2. USB 4 / Thunderbolt™ 4
- 3. HDMI
- 4. USB-A 3.2 Gen 1 (always on)
- 5. Headphone / mic combo
- 6. Novo hole
- 7. Battery indicator
- 8. 4-in-1 card reader
- 9. USB-A 3.2 Gen 1
- 10. RJ45
- 11. Kensington NanoSaver™ lock slot

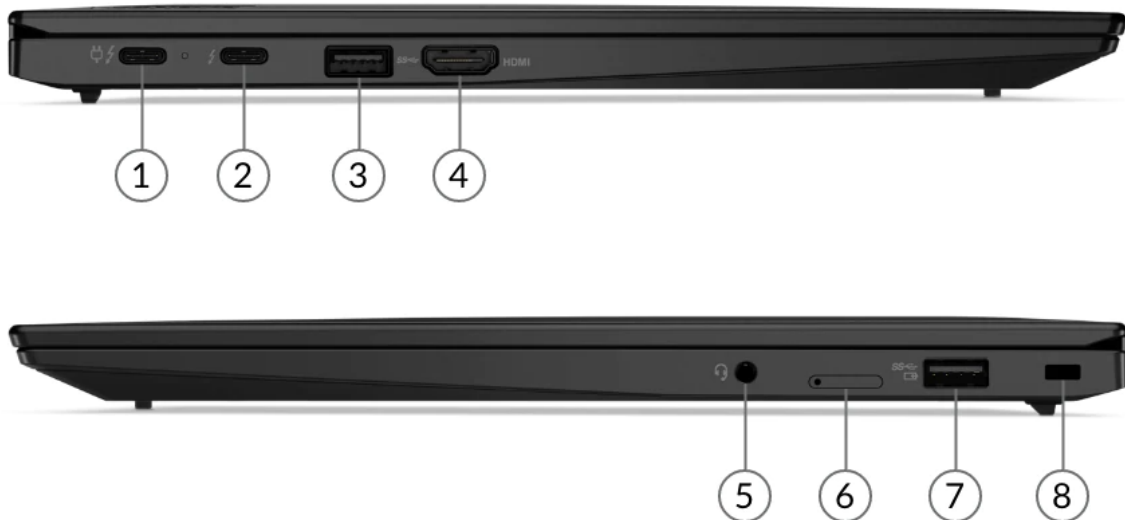
Lenovo X1 Carbon (L198) – \$1698.63

Technical Specifications:

- Intel i7-1185G7 vPro Processor
- Dimensions: 12.38" x 8.72" x 0.59"
- Weight: 2.49 lbs.
- 512GB SSD
- 16GB system memory
- Screen: 14" Anti-glare Multitouch
- Integrated Intel Iris X Graphics
- System memory: 16GB
- IR and FHD Camera with Microphone
- 1x Thunderbolt 4 power input
- 1x Thunderbolt 4
- 1x HDMI 2.0
- 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

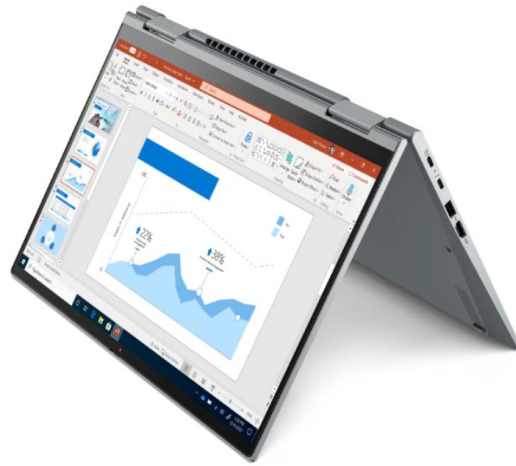


- 1. Thunderbolt™ 4 power input
- 2. Thunderbolt 4
- 3. USB-A 3.2 Gen 1
- 4. HDMI 2.0
- 5. Headphone / mic combo
- 6. Optional Nano SIM slot
- 7. USB-A 3.2 Gen 1
- 8. Kensington lock slot

Lenovo X1 Yoga (L197) – \$1791.69

Technical Specifications:

- Intel i7-1185G7 vPro Processor
- Dimensions: 12.32" x 8.77" x 0.59"
- Weight: 3.0 lbs.
- 512GB SSD
- 16GB system memory
- Screen: 14" Anti-glare Multitouch
- Integrated Iris Xe Graphics
- IR and FHD Camera with Microphone
- 1x Thunderbolt 4 power input
- 1x Thunderbolt 4
- 1x HDMI 2.0
- 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. Thunderbolt™ 4 power input
- 2. Thunderbolt 4
- 3. USB-A 3.2 Gen 1
- 4. HDMI 2.0
- 5. Garaged pen
- 6. Headphone / mic combo
- 7. USB-A 3.2 Gen 1 (always on)
- 8. Kensington lock slot

Dell Precision 7560 (L201) – \$2060.00

Technical Specifications:

- 11th Gen Intel Core Processor i7-11850H
- Dimensions: 14.17" x 9.53" x 0.98"
- Weight: 5.42 lbs.
- 512GB SSD
- 32GB system memory
- Screen: 15.6" Anti-glare NON-TOUCH
- NVIDIA T1200 w/4 B GDDR6
- Camera w/ Microphone
- WWAN/WLAN capable
- No mobile broadband card
- Bottom Cover w/Smart Card slot and SSD Quick Access Door
- 1x RJ45
- 1x Mini DP 1.4
- 1x HDMI 2.1
- 2x USB 3.2 Gen 1 Type-A port with PowerShare
- 2x USB 3.2 Gen 2 Type-C Thunderbolt 4.0
- 1x Headphone jack
- 1x Cable lock
- 4-year Next Business Day + KYHD (Keep Your Hard Drive)



Ports & Slots

1. SD-card slot | 2. Headphone jack | 3. 2x USB 3.2 Gen 1 Type-A port with PowerShare | 4. Cable lock | 5. Mini DP 1.4 | 6. HDMI 2.1 | 7. RJ-45 | 8. Power | 9. 2x USB 3.2 Gen 2 Type-C® Thunderbolt 4.0 ports | 10. Smart card reader

COMPARISON

	Dell Latitude 5420 With or without dock	Dell Latitude 5520 With or without dock	Dell 7420 2 in 1 – no docking station	Dell Precision 7560
SIGMA Number	L203/L204	L205/206	L195	L201
Processor	i5	i5	i7	i7
Storage	512 GB SSD	512 GB SSD	512 GB SSD	512 GB SSD
Memory	16GB	16GB	16GB	32GB
Dock	With or without	With or without	Without	Without
Touchscreen	Yes	Yes	Yes	No
Screen Size	14"	15.6"	14"	15.6"
Numeric Keypad	No	Yes	No	Yes
Backlit Keyboard	Yes	Yes	Yes	Yes
USB Ports	1x USB 3.2 Gen 1 port, 1x USB 3.2 Gen 1 port with PowerShare, 2x Thunderbolt 4 ports with DisplayPort/Alt Mode/USB4/PowerDelivery	1x USB 3.2 Gen 1 port, 1x USB 3.2 Gen 1 port with PowerShare, 2x Thunderbolt ports with DisplayPort Alt Mode/USB4 Power Delivery, 2x ThunderBolt 3 ports with DisplayPort Alt Mode/USB3.2 Gen2/Power Delivery	1x USB 3.2 Gen 1 with PowerShare, 2x Thunderbolt 4 with Power Delivery and DisplayPort (USB Type-C)	2x USB 3.2 Gen 1 Type-A port with PowerShare, 2x USB 3.2 Gen 2 Type-C Thunderbolt 4.0,
Display Ports	1x HDMI 2.0	1x HDMI 2.0 port, 1x HDMI 1.4 port	1x HDMI 2.0	1x HDMI 2.1, 1x Mini DP 1.4
Addl. Port	1x RJ-45, 1x universal audio port	1x RJ-45, 1x universal audio port	1x universal audio jack, 1x uSD 4.0 Memory Card Reader	1x RJ45, 1x headphone jack
Warranty	4-year	4-year	4-year	4-year

	Lenovo ThinkPad T14s	Lenovo ThinkPad T15	Lenovo X1 Carbon	Lenovo X1 Yoga
SIGMA Number	L199	L200	L198	L197
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-C Thunderbolt 4 power in, 1x USB-C Thunderbolt 4, 2x USB-A 3.2 Gen 1	1x USB 3.2 Gen 2 (DP/PD), 1x USB 4/Thunderbolt 4, 1x USB-A 3.2 Gen 1 (always on), 1x USB-A 3.2 Gen 1	1x Thunderbolt 4 power input, 1x Thunderbolt 4, 2x USB-A 3.2 Gen 1	1x Thunderbolt 4 power input, 1x Thunderbolt 4, 1x USB-A 3.2 Gen 1, 1x USB-A 3.2 Gen 1 (always on)
Display Ports	1x HDMI 2.0	1x HDMI 2.0	1x HDMI 2.0	1x HDMI 2.0
Addl. Port	1x headphone/mic combo	1x RJ-45, 1x headphone/mic combo	1x universal audio jack	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.
- **Logitech Wireless Keyboard (D122)** – Logitech Wireless Keyboard K350
- **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 Pro Briefcase (L153)** – Fits 15-inch laptop
- **Dell Pro Backpack (L154)** – Fits 17-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.



- **Dell USB-C Mobile Adapter DA310 (T97)** -



Ports & Slots

1. RJ-45 | 2. USB-A 3.1 Gen2 | 3. USB-A 3.1 Gen2 | 4. USB-C (Multifunctional with up to 90W power pass through, 4K@30Hz, USB 3.1 Gen2) | 5. HDMI 2.0 (up to 4K@60Hz) | 6. VGA | 7. DisplayPort (up to 4K@60Hz)