

## State of Michigan Laptop Comparison Guide As of 08/04/2021

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 (L191) - \$980.00 no dock

## Dell Latitude 5420 (L192) - \$1104.00 with dock

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

### **Technical Specifications:**

- Intel<sup>®</sup> Core<sup>™</sup> 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<sup>™</sup> 4 with Power Delivery and DisplayPort (USB Type-C<sup>™</sup>) | 9. Thunderbolt<sup>™</sup> 4 with Power Delivery and DisplayPort (USB Type-C<sup>™</sup>) | 10. SmartCard reader (optional) | 11. External eSim slot (optional, not pictured on back)

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# Dell Latitude 5520 (L193) - \$992.00 no dock Dell Latitude 5520 (L194) - \$1116.00 with dock

### **Technical Specifications:**

- Intel<sup>®</sup> Core<sup>™</sup> 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 11<sup>th</sup> Generation Intel Core i3/i5/i7 processors
- 2 x Thunderbolt 3 ports with DisplayPort Alt Mode/USB3.2 Gen2/Power Delivery for 10<sup>th</sup> 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<sup>™</sup> 4 with Power Delivery and DisplayPort (USB Type-C<sup>™</sup>) | 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<sup>™</sup> 4 with Power Delivery and DisplayPort (USB Type-C<sup>™</sup>) | 4. USB 3.2 Gen 1 with Power share | 5. HDMI 2.0 | 6. Wedge-shaped Lock Slot | 7. Thunderbolt<sup>™</sup> 4 with Power Delivery and DisplayPort (USB Type-C<sup>™</sup>) | 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<sup>™</sup> 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

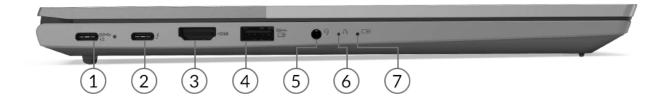
#### **Technical Specifications:**

- 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

Ports/Slots

- 1x RJ45
- 1x Headphone/mic combo
- 1x Kensington NanoSaver Slot
- 4-year Next Business Day + KYHD (Keep Your Hard Drive)







- 1. USB-C 3.2 Gen 2 (DP/PD)
- 2. USB 4 / Thunderbolt<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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

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### Dell Precision 7560 (L201) - \$2060.00

#### **Technical Specifications:**

- 11<sup>th</sup> 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<sup>®</sup> Thunderbolt 4.0 ports | 10. Smart card reader



## **COMPARISON**

|                  | Dell Latitude 5420<br>With or without dock   | Dell Latitude 5520<br>With or without dock   | Dell 7420 2 in 1 – no<br>docking station  | Dell Precision 7560  |
|------------------|--|--|---|--|
| SIGMA Number     | L191/L192  | L193/L194  | 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,<br>1x USB 3.2 Gen 1 port<br>with PowerShare, 2x<br>Thunderbolt 4 ports<br>with DisplayPort/Alt<br>Mode/USB4/PowerDeli<br>very | 1x USB 3.2 Gen 1 port, 1x USB<br>3.2 Gen 1 port with<br>PowerShare, 2x Thunderbolt<br>ports with DisplayPort Alt<br>Mode/USB4 Power Delivery,<br>2x ThunderBolt 3 ports with<br>DisplayPort Alt Mode/USB3.2<br>Gen2/Power Delivery | 1x USB 3.2 Gen 1 with<br>PowerShare, 2x<br>Thunderbolt 4 with<br>Power Delivery and<br>DisplayPort (USB Type-<br>C) | 2x USB 3.2 Gen 1<br>Type-A port with<br>PowerShare, 2x USB<br>3.2 Gen 2 Type-C<br>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<br>Mini DP 1.4   |
| Addl. Port       | 1x RJ-45, 1x universal<br>audio port   | 1x RJ-45, 1x universal audio<br>port   | 1x universal audio jack,<br>1x uSD 4.0 Memory<br>Card Reader  | 1x RJ45, 1x<br>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 | 1x USB 3.2 Gen 2      | 1x Thunderbolt 4   | 1x Thunderbolt 4 power   |
|                  | 4 power in, 1x USB-C | (DP/PD), 1x USB       | power input, 1x    | input, 1x Thunderbolt 4, |
|                  | Thunderbolt 4, 2x    | 4/Thunderbolt 4, 1x   | Thunderbolt 4, 2x  | 1x USB-A 3.2 Gen 1, 1x   |
|                  | USB-A 3.2 Gen 1      | USB-A 3.2 Gen 1       | USB-A 3.2 Gen 1    | USB-A 3.2 Gen 1 (always  |
|                  |                      | (always on), 1x USB-A |                    | on)                      |
|                  |                      | 3.2 Gen 1             |                    |                          |
| Display Ports    | 1x HDMI 2.0          | 1x HDMI 2.0           | 1x HDMI 2.0        | 1x HDMI 2.0              |
| Addl. Port       | 1x headphone/mic     | 1x RJ-45, 1x          | 1x universal audio | 1x headphone/mic combo   |
|                  | combo                | headphone/mic combo   | jack               |                          |
| Warranty         | 4-year               | 4-year                | 4-year             | 4-year                   |

# ACCESSORIES

- Dell Mobile Pro Wireless Mouse (D119) Black, wireless, 2.4GHz or Bluetooth 5.04, 3year 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.
- Dell Slim Briefcase (L152) Fits 15-inch laptop
- Dell Pro Briefcase (L153) Fits 15-inch laptop
- Dell Pro Backpack (L154) Fits 17-inch laptop
- StarTech 3-port USB Hub (T31) -USB 3.0 Hub with Gigabit Ethernet Adapter.



• Dell Video Adapter (T58) - USB-C to HDMI/VGA/Ethernet/USB 3.0.

