



State of Michigan Rugged Comparison Guide As of 09/08/2022

For the purpose of this document, we define a **rugged** device as a device that has passed portions of or all of the MIL-STD-810G testing, defining it as rugged. This document provides guidance on the system units in the rugged laptop category in Sigma. Included: the Dell Latitude 7220 Rugged Tablet w/Kickstand and the Dell Latitude 5430 Rugged Laptop.

We define **rugged-extreme** as a device that is fully adapted for use within harsh environments where there may be freezing temperatures or temperatures up to 120 degrees Fahrenheit. These devices are weatherproofed and sealed to prevent salt, sand, moisture, or other environmental hazards from affecting the device. **Rugged** is not protected to the same degree as the rugged extreme devices. They can withstand high temperatures and low temperatures but can suffer from a decrease in performance in these environments. They are good for travel and outdoor use, but they are not sealed against environmental hazards.

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

[Details of each model on the following](#)

[Dell Latitude 7220 Rugged Tablet w/Kickstand \(T98\) – \\$2039.00](#)

11.6" 1920x1080, outdoor readable lightweight powerful fully rugged touchscreen tablet.

This laptop comes with a 4-year warranty that is next business day and on-site.

Operating System

- Windows 10 Pro

Technical Specifications

- Intel® Core™ i7-8665U Processor
- 16GB DDR4
- 256G Solid State Drive
- 11.6" touchscreen
- Intel Dual Band Wireless-AC 9560
- U-blox NEO-MB-GPS card
- HD IR webcam/ 8 MP rear camera with Flash and Dual Microphone
- 1x Mini Serial RS-232 port
- 1x USB 3.0 Type C port with DisplayPort Alt Mode/PowerShare
- 1x USB 3.1 Type-A with Power Delivery
- 1x Micro SD card slot
- 1x Combo mic/headphone jack
- 1x Kensington lock slot
- Dimensions: 0.96" x 12.29" x 7.99"
- Weight 2.93lbs.
- 4-year warranty, Keep your hard drive



Ports & Slots

1. DC-in | 2. Mini Serial RS-232 port | 3. USB 3.0 Type-C™ port with DisplayPort Alt Mode/PowerShare | 4. USB 3.1 Type-A with Power Delivery | 5. Micro SD-card slot | 6. Combo mic/headphone Jack | 7. Fan exhaust | 8. Kensington lock slot

Dell Latitude 5430 Rugged Laptop (L215) – \$2229.00

14" anti-glare, outdoor readable touchscreen rugged laptop. No camera/No microphone.

Technical Specifications

- 11th Gen Intel® Core™ i5-1145G7 vPro w/Iris Xe Graphics
- 32GB DDR4
- 512G Solid State Drive
- 14" touchscreen Anti-Glare Outdoor Viewable
- Intel AX210 Wireless Card w/Bluetooth
- 53.5 Watt Hour ExpressCharge Capable Battery
- Backlit Sealed Internal Keyboard
- No broadband built in
- 1 x RJ45 Ethernet Port
- 1 x USB 3.2 Gen 1 port
- 1 x USB 3.2 Gen 1 port with PowerShare
- 1 x HDMI 2.0 port
- 1 x Serial RS-232 port
- 1 x headset port
- 1 x Kensington lock slot
- 1 x microSD card slot
- 1 x Nano SIM card slot
- Dimensions: 1.32 x 13.38" x 8.66"
- Weight 4.35lbs
- 4-year warranty and keep your hard drive



Ports & Slots

1. Smart Card reader (Optional)
2. Stylus
3. Stylus lanyard
4. microSD Card reader / Nano SIM slot

5. 2nd TBT4 (Optional) / USB 3.2 Gen 2 Type-C
6. Choose one: 2nd RS-232 / 2nd RJ-45 / 3rd USB Type-A / Fischer USB 3.0 / Blank
7. RJ-45 Network port
8. RS-232 Serial port

9. HDMI
10. TBT4 / USB 3.2 Gen 2 Type-C
11. 2x USB 3.2 Gen 1 Type-A
12. Universal Audio Jack