State of Michigan Rugged Comparison Guide
As of 08/31/2023

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 5430 Rugged Laptop and the Dell Latitude 7230 Rugged Extreme.

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.

[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

Dell Latitude 7230 Rugged Extreme Tablet (T100) – $2950.00

Technical Specifications

- 12th Gen Intel® Core™ i7-1260U vPro w/Iris Xe Graphics
- 32GB DDR5 memory with u-blox NEO-M9N GPS card
- 512G Solid State Drive
- 12" touchscreen, Anti-Glare, outdoor viewable
- 5MP front dedicated IR/RGB, 11MP rear with flash and microphone
- Includes Keyboard – shipped separately
- Intel Wi-Fi 6 AX211 Wireless Driver (with Bluetooth)
- Intel AX211 Wi-Fi 6E + BT 5.2 5G
- WLAN, WWAN, GPS Antennas (Pogo vehicle docking, No Rfpassthrough)
- 4G module – CAT16 – Qualcomm Snapdragon X20 LTE, Verizon, NMEA GPS port
- Dimensions: 0.94 x 11.65" x 7.99"
- 1x Right hand side expansion port - USB-A
- 1x Top expansion port, Mini Serial
- Weight 2.78-3.49lbs
- Backcover, no Fingerprint, no Smartcard reader, no removable SSD
- No Microsoft Office License included
- 4-year warranty and keep your hard drive