



# Selection Guide

# Rugged Tablets



PX501 (Gen V)



SOL PA501

 <p><b>System</b></p>	<ul style="list-style-type: none"> <li>• Intel® Core™ i5-1335UE, Intel® Core™ i7 1365UE, Intel® Processor U300E</li> <li>• 8GB DDR5 SDRAM , Optional : 16/32GB DDR5 SDRAM</li> <li>• 128GB PCIE M.2 SSD, Optional : 256GB/512GB/1TB PCIE M.2 SSD</li> <li>• OS optional : Windows 11 GAC</li> </ul>	<ul style="list-style-type: none"> <li>• Qualcomm® Snapdragon™ 660 Octa-Core, 1.9GHz up to 2.2GHz</li> <li>• 3GB LPDDR4 RAM + 32GB eMMC storage (US carrier SKU)</li> <li>• 4GB LPDDR4 RAM + 64GB eMMC storage (Global SKU)</li> <li>• OS : Android 12, Google Mobile Services certified</li> </ul>
 <p><b>Display</b></p>	<ul style="list-style-type: none"> <li>• 10.1" TFT LCD WUXGA (1920 x 1200), Gorilla Glass</li> <li>• 1000 nits brightness with hyper dimming option</li> <li>• Capacitive multi-touch screen supports glove touch, 2mm hard tip stylus</li> <li>• Optional digitizer with IP54 pen</li> </ul>	<ul style="list-style-type: none"> <li>• 10.1" TFT LCD WUXGA (1920 x 1200)</li> <li>• 1000 nits brightness supports night mode and stealth mode</li> <li>• Capacitive 10-point multi-touch supports glove touch, 2mm hard tip stylus</li> </ul>
 <p><b>Durability</b></p>	<ul style="list-style-type: none"> <li>• IP65, MIL-STD-810H and MIL-STD-461G certified</li> <li>• Vibration, shock and 5-foot drop resistance</li> <li>• Operating temperature : -20° C to +60° C</li> </ul>	<ul style="list-style-type: none"> <li>• IP65, MIL-STD-810G &amp; MIL-STD-461G certified</li> <li>• Vibration &amp; shock &amp; 5' drop resistance</li> <li>• Operating temperature : -20° C to +60° C</li> </ul>
 <p><b>Communications</b></p>	<ul style="list-style-type: none"> <li>• Wi-Fi 6E , 802.11 ax</li> <li>• Bluetooth V5.3</li> <li>• GNSS (GPS/ GLONASS/ BeiDou)</li> <li>• Optional : 4G LTE/5G (sub 6G)</li> </ul>	<ul style="list-style-type: none"> <li>• Optional built-in NFC</li> <li>• Wi-Fi 5 (802.11 ac)</li> <li>• GNSS (GPS/ GLONASS/ BeiDou)</li> <li>• Bluetooth V5.0</li> <li>• 4G LTE certified with Verizon, AT&amp;T and FirstNet™ through optional Sierra Wireless EM7511</li> </ul>
 <p><b>Camera</b></p>	<ul style="list-style-type: none"> <li>• 2MP front camera</li> <li>• 8MP auto focus rear camera with LED flash</li> </ul>	<ul style="list-style-type: none"> <li>• 8MP fixed focus front camera</li> <li>• 13MP auto focus rear camera with LED flash</li> </ul>
 <p><b>Expansion Option</b></p>	<ul style="list-style-type: none"> <li>• Built-in 2D barcode reader (OCR option)</li> <li>• NFC + Smart card reader module</li> <li>• Fingerprint reader, MRZ reader</li> <li>• Snap-on connector easy for customization</li> </ul>	<ul style="list-style-type: none"> <li>• Built-in 2D barcode reader (OCR supported)</li> <li>• Fingerprint reader</li> <li>• Snap-on connector easy for customization</li> </ul>
 <p><b>I/O Interfaces</b></p>	<ul style="list-style-type: none"> <li>• USB 3.1 type A x1, Thunderbolt™ 4 Type-C x 1</li> <li>• RS-232 x 1, option USB 2.0 or Micro SD slot</li> <li>• Gigabit Ethernet (RJ45) x 1</li> <li>• Audio headset jack x 1</li> <li>• Nano SIM slot x 2</li> <li>• Optional RF pass-through connector x 2</li> <li>• Docking connector x 1, DC-in x 1</li> </ul>	<ul style="list-style-type: none"> <li>• USB 3.1 type C x 1 (DP supported) , USB 2.0 type A x 2</li> <li>• RS-232 x 1 (available for option USB 2.0)</li> <li>• Gigabit Ethernet (RJ45) x 1, Audio headset jack x 1</li> <li>• Micro SD slot x 1 (SDXC/ SDHC supported )</li> <li>• Micro SIM slot x 2</li> <li>• Optional RF pass-through connector x2</li> <li>• Docking connector x 1, DC-in x 1</li> </ul>
 <p><b>Security</b></p>	<ul style="list-style-type: none"> <li>• TPM 2.0</li> </ul>	<ul style="list-style-type: none"> <li>• ARM® TrustZone®</li> </ul>
 <p><b>Battery</b></p>	<ul style="list-style-type: none"> <li>• 4500mAh hot swappable battery</li> <li>• Optional 9000mAh hot swappable battery</li> <li>• Fast charging supported</li> </ul>	<ul style="list-style-type: none"> <li>• 4500mAh hot swappable battery</li> <li>• Optional 9000mAh hot swappable battery</li> <li>• Supports fast charging</li> </ul>
 <p><b>Dimensions &amp; Weight</b></p>	<ul style="list-style-type: none"> <li>• 280 x 195 x 23 mm (11" x 7.7" x 0.9") (W x H x D)</li> <li>• 1.36 kg (3 lbs)</li> </ul>	<ul style="list-style-type: none"> <li>• 280 x 195 x 23 mm (11" x 7.7" x 0.9") (W x H x D)</li> <li>• 1.4 kg (3.09 lbs)</li> </ul>
















# Rugged Tablets & Monitor



LUNA 3



CHASER

 <p><b>System</b></p>	<ul style="list-style-type: none"> <li>• Intel® Tiger Lake i5-1145G7E</li> <li>• 8GB LPDDR4x RAM</li> <li>• 64 to 512GB M.2 2242 SSD storage</li> <li>• Windows 10 IoT Enterprise</li> </ul>	 <p><b>Display</b></p>	<ul style="list-style-type: none"> <li>• 11.6" TFT LCD Full HD (1920 x 1080)</li> <li>• 1000 nits high brightness</li> <li>• Contrast Ratio: 1000:1</li> <li>• Viewing Angle: 85°/85°/85°/85°</li> <li>• Capacitive multi touch (PCT) with AR/ AF coating</li> </ul>
 <p><b>Display</b></p>	<ul style="list-style-type: none"> <li>• 8" TFT LCD (1280 x 800)</li> <li>• 1000 nits brightness supports night mode and stealth mode</li> <li>• Capacitive 10-point multi-touch supports glove touch, 2mm hard tip stylus</li> <li>• Optional digitizer</li> </ul>	 <p><b>Durability</b></p>	<ul style="list-style-type: none"> <li>• Waterproof (front panel) and MIL-STD-810H certified</li> <li>• Vibration and shock resistance</li> <li>• Operating temperature : -20° C to +60° C</li> </ul>
 <p><b>Durability</b></p>	<ul style="list-style-type: none"> <li>• IP65, MIL-STD-810H and MIL-STD-461G certified</li> <li>• 4-feet drop resistance</li> <li>• Operating temperature : -20° C to +50° C</li> </ul>	 <p><b>Function Button</b></p>	<ul style="list-style-type: none"> <li>• Black out x 1, mute x 1, volume x 2, brightness x 2, video input select x 1</li> </ul>
 <p><b>Communications</b></p>	<ul style="list-style-type: none"> <li>• Wi-Fi 6 (802.11 ax) and Bluetooth V5.2</li> <li>• Optional 4G LTE &amp; GNSS</li> </ul>	 <p><b>I/O Interfaces</b></p>	<ul style="list-style-type: none"> <li>• USB 2.0 type C x 1 (DP supported), USB 2.0 type A x 5, USB 2.0 type B x 1</li> <li>• HDMI 1.4 x 1</li> <li>• 3W stereo speakers with amplifier x 2</li> <li>• Dc-in x 1</li> </ul>
 <p><b>Camera</b></p>	<ul style="list-style-type: none"> <li>• 2MP fixed focus front camera</li> <li>• 8MP auto focus rear camera with LED flash</li> </ul>	 <p><b>Dimensions &amp; Weight</b></p>	<ul style="list-style-type: none"> <li>• 296 x 216 x 43 mm (11.8"x 8.6"x 1.7") (W x H x D)</li> <li>• 1.8 kg (4 lbs)</li> </ul>
 <p><b>Expansion Option</b></p>	<ul style="list-style-type: none"> <li>• Snap-on connector easy for customization x 2</li> <li>• Snap-on I : RJ45 + USB-A 2.0 / RJ45 + RS232 / NFC</li> <li>• Snap-on II : Bridge battery</li> <li>• (This is required for hot-swappable function)</li> </ul>		
 <p><b>I/O Interfaces</b></p>	<ul style="list-style-type: none"> <li>• USB 3.1 type C x 2</li> <li>• Micro SIM slot x 2</li> </ul>		
 <p><b>Security</b></p>	<ul style="list-style-type: none"> <li>• Intel® TPM technology</li> </ul>		
 <p><b>Battery</b></p>	<ul style="list-style-type: none"> <li>• Typical capacity of 2400mAh, min. 2100mAh</li> <li>• Optional typical capacity of 4800mAh, min. 4200mAh</li> </ul>		
 <p><b>Dimensions &amp; Weight</b></p>	<ul style="list-style-type: none"> <li>• 225 x 158 x 22 mm (8.9" x 6.2" x 0.9") (W x H x D)</li> <li>• 0.85kg (1.87 lbs)</li> </ul>		

# Vehicle Mount Computers



VULCAN X



VX-601



**System**

- Intel® Core™ i5-8365UE 1.6GHz  
optional Intel® Celeron® 4305UE 2.0GHz
- 4GB DDR4 SODIMM, expandable up to 32GB
- M.2 2280 SSD
- Built-in 6-axis motion sensor, dual speaker
- OS option : Windows 10 IoT Enterprise

- Intel® Core™ i5-6300U 2.4GHz  
optional Intel® Celeron® 3955U 2GHz
- 4GB DDR3L SODIMM, expandable up to 16GB
- M.2 2280 SSD
- Built-in 3-axis G-sensor, dual speaker
- OS option : Windows 10 IoT Enterprise



**Display**

- 10.4" TFT LCD XGA (1024 x 768)
- 1200 nits brightness supports auto-dimming
- 5-wire resistive touch supports defrost / defog function
- PCT by request

- 12.1" TFT LCD XGA (1024 x 768)
- 700 / 1200 nits brightness support auto-dimming
- 5-wire resistive touch supports defroster function
- PCT by request



**Durability**

- IEC 60529 IP66
- IEC 60721-3-5 class 5M3
- MIL-STD-810H (vibration, shock, optional salt fog)
- Operating temperature : -30°C to +55°C

- IEC 60529 IP66
- IEC 60721-3-5 class 5M3
- MIL-STD-810G (vibration, shock, salt fog)
- Operating temperature : -30°C to 55°C



**Communications**

- Wi-Fi 802.11 a/b/g/n/ac/v/r/k
- Bluetooth V5.0
- Optional 4G LTE / HSPA+ / GPRS or 5G
- Optional GNSS (GPS / Galileo / GLONASS / BeiDou / QZSS)

- Wi-Fi 802.11 a/b/g/n/ac
- Bluetooth V4.0 Class 2
- Optional 4G LTE / HSPA+ / GPRS
- Optional GNSS (GPS / QZSS or GLONASS)



**Function Button**

- Programmable button x 7, brightness adjustment x 2  
volume adjustment x 2, display on/off x 1
- Optional defrost / defog button x 1

- Programmable button x 9, brightness adjustment x 2  
volume adjustment x 2, display on/off x 1
- Optional defrost / defog button x 1



**I/O Interfaces**

- RS-232 with power supported x 1, RS-232(TX,RX)/422/485 x 1,  
RS-232(TX,RX) x 2, RS-485 x 2
- Gigabit Ethernet x 2
- USB 3.1 x 1, USB 2.0 x 2, USB 3.1 type C x 1 (DP Alt mode supported)
- Micro SD slot x 1, Micro SIM slot x 2
- Optional CAN bus 2.0B x 2 or SAE J1939 x 1
- DI x 2, DO x 2
- Mic in x 2, Line out (L/R) x 1
- Optional video input
- DC-in x 1

- RS-232 with power supported x 1, RS-232/422/485 x 1
- Gigabit Ethernet (RJ45) x 1
- USB 3.0 / 2.0 x 1, USB 2.0 x 1
- SD slot x 1
- CAN bus (SAE J1939 support) x 1
- DI x 2, DO x 2
- Audio headset jack x 1
- Optional video input x 4
- DC-in x 1



**Power**

- 9~60 VDC input
- Internal backup battery for graceful shutdown

- 9~60 VDC input
- UPS backup battery



**Dimensions & Weight**

- 278 x 234 x 57 mm (11" x 9.2" x 2.3") (W x H x D)
- 3.2 kg (7.04 lbs)

- 325 x 280 x 69 mm (13"x 11.2"x 2.8") (W x H x D)
- 4.9 kg (10.8 lbs with IPBOX)









# Mobile Data Terminals



VIKING



MT7000

 <p><b>System</b></p>	<ul style="list-style-type: none"> <li>• Qualcomm® Snapdragon™ 660 Octa-Core, 1.9GHz</li> <li>• 4GB LPDDR4 SDRAM</li> <li>• 64GB eMMC storage</li> <li>• Built-in 3-axis G-sensor, dual speaker</li> <li>• OS : Android 12, Google Mobile Services (GMS) certified</li> </ul>	<ul style="list-style-type: none"> <li>• Intel® Atom™ E3826 1.46GHz</li> <li>• 2GB DDR3L SODIMM</li> <li>• mSATA SSD</li> <li>• Built-in 3-axis G-sensor, dual speaker</li> <li>• OS option : Windows 10 IoT Enterprise</li> </ul>
 <p><b>Display</b></p>	<ul style="list-style-type: none"> <li>• 7" TFT LCD WSVGA (1024 x 600)</li> <li>• 500 nits brightness</li> <li>• Capacitive multi touch (PCT)</li> <li>• Support auto-dimming</li> </ul>	<ul style="list-style-type: none"> <li>• 7" TFT LCD WSVGA (1024 x 600)</li> <li>• 500 nits brightness support auto-dimming</li> <li>• Capacitive multi touch (PCT)</li> </ul>
 <p><b>Durability</b></p>	<ul style="list-style-type: none"> <li>• IEC 60529 IP65 (except bottom side I/O)</li> <li>• MIL-STD-810H (vibration, shock)</li> <li>• Operating temperature : -20°C to +60°C</li> </ul>	<ul style="list-style-type: none"> <li>• IEC 60529 IP65 (except bottom side I/O)</li> <li>• MIL-STD-810G (vibration, shock)</li> <li>• Operating temperature -30°C to +60°C</li> </ul>
 <p><b>Communications</b></p>	<ul style="list-style-type: none"> <li>• GNSS (GPS / GLONASS / BeiDou/ Galileo)</li> <li>• WiFi 802.11 a/b/g/n/ac</li> <li>• Bluetooth V5.0</li> <li>• 4G LTE / WCDMA / GSM</li> <li>• NFC</li> </ul>	<ul style="list-style-type: none"> <li>• GNSS (GPS / QZSS or GLONASS or BeiDou) , Dead Reckoning support</li> <li>• Optional Wi-Fi 802.11 a/b/g/n/ac</li> <li>• Optional Bluetooth V4.0 Class2</li> <li>• Optional 4G LTE / HSPA+ / GPRS</li> <li>• NFC / RFID by request</li> </ul>
 <p><b>Function Button</b></p>	<ul style="list-style-type: none"> <li>• Programmable button x 5</li> <li>• Volume adjustment x 2</li> <li>• Display on/off x 1</li> </ul>	<ul style="list-style-type: none"> <li>• Programmable button x 5</li> <li>• Volume adjustment x 2</li> <li>• Display on/off x 1</li> </ul>
 <p><b>I/O Interfaces</b></p>	<ul style="list-style-type: none"> <li>• RS-232 with power supported x 1, RS-232 (TX/RX) x1, RS-422 x1 , RS-485 x1</li> <li>• Gigabit Ethernet (RJ45 ) x 1</li> <li>• USB 3.1 type C x 1 (DP Alt Mode support), USB 2.0 type A x 2</li> <li>• Micro SD slot x 1, Micro SIM slot x 2</li> <li>• CAN bus, or CAN bus module (supports SAE J1939)</li> <li>• DI x 2, DO x 2</li> <li>• Audio headset jack x 1</li> <li>• DC-in x 1</li> </ul>	<ul style="list-style-type: none"> <li>• RS-232 with power supported x 1, RS-232/422/485 x 1</li> <li>• Gigabit Ethernet (RJ45) x 1</li> <li>• USB 3.0 x 1, USB 2.0 x 1</li> <li>• Micro SD slot x 1, Micro SIM slot x 2</li> <li>• CAN bus (SAE J1939 supported) x 1</li> <li>• DI x 2, DO x 2</li> <li>• Audio headset jack x 1</li> <li>• DC-in x 1</li> </ul>
 <p><b>Power</b></p>	<ul style="list-style-type: none"> <li>• 9~36 VDC input</li> <li>• Vehicle power protection (ISO7637-2 )</li> <li>• UPS backup battery</li> </ul>	<ul style="list-style-type: none"> <li>• 9~36 VDC input</li> <li>• Vehicle power protection (ISO7637-2 )</li> <li>• UPS backup battery</li> </ul>
 <p><b>Dimensions &amp; Weight</b></p>	<ul style="list-style-type: none"> <li>• 220 x 152 x 41 mm (8.8"x 6.1"x 1.6") (W x H x D)</li> <li>• 1.25 kg (2.75 lbs)</li> </ul>	<ul style="list-style-type: none"> <li>• 220 x 152 x 41 mm (8.8"x 6.1"x 1.6") (W x H x D)</li> <li>• 1.25 kg (2.75 lbs)</li> </ul>

# Military Panel PC



XR 10



## System

- Intel® Core™ i7-6822EQ Quad core processor 2.0GHz (Turbo Boost up to 2.8GHz)
- 8GB DDR4 XRDIMM, up to 16GB
- M.2 2242 SATA MLC SSD x 2



## Display

- 10.4" TFT LCD XGA (1024 x 768)
- 1300 nits (typical) brightness
- Multi-point resistive touch



## Durability

- IEC 60529 IP67
- MIL-STD-810G (vibration, shock, altitude, salt fog)
- Operating temperature : -40° C to +71° C



## Expansion Option

- MXM 3.0 Type A
- Mini-PCIe slot x 2



## I/O Interfaces

- USB 2.0 x 6
- RS-232 x 4, Isolation RS-422/485 x 4
- Gigabit Ethernet x 4
- GPIO x 8
- VGA x 1, DVI-D x 1
- Audio Line-in x 1, Line-out x 1, Mic-in x 1
- CAN bus V2.0b x 2
- Optional video-in via mini-PCIe slot (CVBS video-in/ HD-SDI video-in)
- Optional MXM graphics output



## EMC

- MIL-STD-461F



## Power

- 28 VDC Nominal input
- Ignition sense with time delay setting
- Compliance with MIL-STD-1275E



## Dimensions & Weight

- 329 x 299.30 x 84.93mm (w/SSD Box)
- 329 x 278 x 84.93mm (w/o SSD Box)



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