



Selection Guide

Rugged Tablets



PX501 (GEN III)



PM-521

	PX501 (GEN III)	PM-521
 <p>System</p>	<ul style="list-style-type: none"> Intel® Core™ i5-7300U vPro™ 2.6GHz Intel® Core™ i5-8250U 1.6GHz 8GB DDR4 SDRAM, 16GB DDR4 SDRAM (By request) 128GB M.2 SSD, 256GB M.2 SSD (By request) OS option : Windows 10 IoT Enterprise 	<ul style="list-style-type: none"> Intel® Atom™ E3827 1.75 GHz 4GB DDR3L 128GB mSATA SSD, expandable up to 256GB OS option : Windows 10 IoT Enterprise
 <p>Display</p>	<ul style="list-style-type: none"> 10.1" TFT LCD WUXGA (1920 x 1200) 1000 nits brightness with hyper dimming option Capacitive 10-point multi-touch supports glove touch, water rejection, palm rejection, 2mm hard tip stylus Optional digitizer with IP54 pen 	<ul style="list-style-type: none"> 10.1" TFT LCD WUXGA (1920 x 1200) 1000 nits brightness Capacitive 10-point multi-touch supports glove touch, water rejection, palm rejection, 2mm hard tip stylus Digitizer by request
 <p>Durability</p>	<ul style="list-style-type: none"> IP65, MIL-STD-810G & MIL-STD-461G certified Vibration & shock & 5' drop resistance Operating temperature : -20° C to +60° C 	<ul style="list-style-type: none"> IP65 & MIL-STD-810G certified Vibration & shock & 5' drop resistance Operating temperature : -20° C to +50° C
 <p>Communications</p>	<ul style="list-style-type: none"> Wi-Fi 802.11 a/b/g/n/ac Bluetooth V4.2 GNSS (GPS/ GLONASS/ BeiDou) Optional 4G LTE 	<ul style="list-style-type: none"> Wi-Fi 802.11 a/b/g/n/ac Bluetooth V4.0 + EDR GNSS (GPS / Glonass / BeiDou) Optional 4G LTE Optional built-in NFC
 <p>Camera</p>	<ul style="list-style-type: none"> 2MP front camera 8MP auto focus rear camera with LED flash 	<ul style="list-style-type: none"> 2MP front camera 5MP auto focus rear camera with LED flash
 <p>Expansion Option</p>	<ul style="list-style-type: none"> Built-in 2D barcode reader (OCR option) NFC + Smart card reader 2-in-1 module Fingerprint reader, UHF RFID reader Snap-on connector easy for customization 	<ul style="list-style-type: none"> Built-in 2D barcode reader NFC + Smart Card reader 2-in-1 module Fingerprint reader, UHF RFID reader Snap-on connector easy for customization
 <p>I/O Interfaces</p>	<ul style="list-style-type: none"> USB 3.1 type A x 1, USB 3.1 type C x 1 RS-232 x 1 (option USB 2.0 or Micro SD slot) Gigabit Ethernet (RJ45) x 1 Audio headset jack x 1 Micro SIM slot x 1, Micro HDMI x 1, Docking connector x 1, optional RF pass-through connector for WLAN/ GNSS/ WWAN x 2 DC-in x 1 	<ul style="list-style-type: none"> USB 3.0 type A x 1, USB 2.0 type A x 1 RS-232 x 1 (option USB 2.0) Gigabit Ethernet (RJ45) x 1 Audio headset jack x 1 Micro SD slot x 1, Micro SIM slot x 1, Micro HDMI x 1 Docking connector x 1, RF pass-through connector for WLAN/ GNSS/ WWAN x 2 DC-in x 1
 <p>Security</p>	<ul style="list-style-type: none"> TPM 2.0 Phoenix SecureWipe by request 	<ul style="list-style-type: none"> TPM 1.2 Phoenix SecureWipe by request
 <p>Battery</p>	<ul style="list-style-type: none"> 4500mAh hot swappable battery Optional 9000mAh hot swappable battery Supports fast charging 	<ul style="list-style-type: none"> 4500mAh hot swappable battery Optional 9000mAh hot swappable battery
 <p>Dimensions & Weight</p>	<ul style="list-style-type: none"> 280 x 195 x 23 mm (11"x 7.7"x 0.9") (W x H x D) 1.36 kg (3 lbs) 	<ul style="list-style-type: none"> 280 x 195 x 23 mm (11"x 7.7"x 0.9") (W x H x D) 1.33 kg (2.93 lbs)

Rugged Tablets













SOL PA501



LUNA 3



PM-311B

	SOL PA501	LUNA 3	PM-311B
 <p>System</p>	<ul style="list-style-type: none"> Qualcomm® Snapdragon™ 660 Octa-Core, 1.9GHz up to 2.2GHz 3GB LPDDR4 RAM + 32GB eMMC storage (US carrier SKU) 4GB LPDDR4 RAM + 64GB eMMC storage (Global SKU) OS : Android 12, Google Mobile Services certified 	<ul style="list-style-type: none"> Intel® Tiger Lake i5-1145G7E 8GB LPDDR4x RAM 64 to 512GB M.2 2242 SSD storage Windows 10 IoT Enterprise 	<ul style="list-style-type: none"> Intel® Celeron® N2930 1.83GHz 4GB DDR3L 128GB / 256GB SSD, optional FIPS 140-2 certified SSD (64~256GB) OS option : Windows 10 IoT Enterprise
 <p>Display</p>	<ul style="list-style-type: none"> 10.1" TFT LCD WUXGA (1920 x 1200) 1000 nits brightness supports night mode and stealth mode Capacitive 10-point multi-touch supports glove touch, 2mm hard tip stylus 	<ul style="list-style-type: none"> 8" TFT LCD 1000 nits (1280 x 800) Sunlight readable supports night mode and stealth mode Capacitive 10-point multi-touch supports glove touch, 2mm hard tip stylus Gorilla Glass 3 Optional digitizer 	<ul style="list-style-type: none"> 7" TFT LCD WSVGA (1024 x 600) 1000 nits brightness, optical bonding with AR/AF solution Capacitive 10-point multi-touch
 <p>Durability</p>	<ul style="list-style-type: none"> IP65, MIL-STD-810G & MIL-STD-461G certified Vibration & shock & 5' drop resistance Operating temperature : -20° C to +60° C 	<ul style="list-style-type: none"> IP65, MIL-STD-810H and MIL-STD-461G certified 4-feet drop resistance Operating temperature : -20° C to +50° C 	<ul style="list-style-type: none"> IP65 & MIL-STD-810G certified Vibration & shock & 5' drop resistance Operating temperature -20°C to 50°C
 <p>Communications</p>	<ul style="list-style-type: none"> Optional built-in NFC Wi-Fi 802.11ac 2x2 MU-MIMO GNSS (GPS/ GLONASS/ BeiDou) Bluetooth V5.0 4G LTE certified with Verizon, AT&T and FirstNet™ through optional Sierra Wireless EM7511 	<ul style="list-style-type: none"> Wi-Fi 6, and BT V5.2 Optional 4G LTE & GNSS 	<ul style="list-style-type: none"> NFC Wi-Fi 802.11 a/b/g/n/ac GNSS (GPS/ GLONASS/ optional BeiDou) Bluetooth V4.0 + EDR Optional 4G LTE
 <p>Camera</p>	<ul style="list-style-type: none"> 8MP fixed focus front camera 13MP auto focus rear camera with LED flash 	<ul style="list-style-type: none"> 2MP fixed focus front camera 8MP auto focus rear camera with LED flash 	<ul style="list-style-type: none"> 2MP front camera 8MP auto focus rear camera with LED flash
 <p>Expansion Option</p>	<ul style="list-style-type: none"> Built-in 2D barcode reader (OCR supported) Fingerprint reader Snap-on connector easy for customization 	<ul style="list-style-type: none"> 2x Snap-on connector easy for customization Snap-on I : RJ45 + USB-A 2.0 / RJ45 + RS232 / NFC Snap-on II : Bridge battery (This is required for hot-swappable function) 	<ul style="list-style-type: none"> 2D barcode reader with OCR option MRZ reader + MSR 2-in-1 module 2D barcode reader + MSR 2-in-1 module Fingerprint reader (capacitive type, 508 dpi)
 <p>I/O Interfaces</p>	<ul style="list-style-type: none"> USB 3.1 type C x 1 (DP supported) , USB 2.0 type A x 2 RS-232 x 1 (available for option USB 2.0) Gigabit Ethernet (RJ45) x 1, Audio headset jack x 1 Micro SD slot x 1 (support SDXC/ SDHC), Micro SIM slot x 2 Optional RF pass-through connector for WLAN/ GNSS/ WWAN x 2 Docking connector x 1, DC-in x 1 	<ul style="list-style-type: none"> USB 3.1 type C x 2 Micro SIM slot x 2 	<ul style="list-style-type: none"> RS-232 x 1, USB 3.0 type A x 2 Gigabit Ethernet (RJ45) x 1 Audio headset jack x 1 Micro SD slot x 1, Micro SIM slot x 1 Docking connector x 1 DC-in x 1
 <p>Security</p>	<ul style="list-style-type: none"> ARM® TrustZone® 	<ul style="list-style-type: none"> Intel® TPM technology 	<ul style="list-style-type: none"> TPM 2.0 Phoenix SecureWipe by request
 <p>Battery</p>	<ul style="list-style-type: none"> 4500mAh hot swappable battery Optional 9000mAh hot swappable battery Supports fast charging 	<ul style="list-style-type: none"> Standard battery: 10.8V, typical 2400mAh, min. 2100mAh Extended battery: 10.8V, typical 4800mAh, min. 4200mAh 	<ul style="list-style-type: none"> 3200 mAh standard battery Optional 4200mAh hot swappable battery
 <p>Dimensions & Weight</p>	<ul style="list-style-type: none"> 280 x 195 x 23 mm (11" x 7.7" x 0.9") (W x H x D) 1.4 kg (3.09 lbs) 	<ul style="list-style-type: none"> 225 x 158 x 22 mm (8.9" x 6.2" x 0.9") (W x H x D) 0.85kg (1.87 lbs) 	<ul style="list-style-type: none"> 225 x 168 x 27 mm (8.9" x 6.6" x 1.1") (W x H x D) 0.95 kg (2.09 lbs)

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 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

- 276 x 234 x 57 mm (11"x 9.4"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>System</p>	<ul style="list-style-type: none"> • Qualcomm® Snapdragon™ 660 Octa-Core, 1.9GHz • 3GB LPDDR4 SDRAM • 32GB eMMC storage • Built-in 3-axis G-sensor, dual speaker • OS : Android 11, Google Mobile Services (GMS) certified 	<ul style="list-style-type: none"> • Intel® Atom™ E3815 1.46GHz • optional Intel® Atom™ E3826 1.46GHz • 2GB DDR3L SODIMM • mSATA SSD • Built-in 3-axis G-sensor, dual speaker • OS option : Windows 10 IoT Enterprise
 <p>Display</p>	<ul style="list-style-type: none"> • 7" TFT LCD WSVGA (1024 x 600) • 500 nits brightness • Capacitive multi touch (PCT) • Support auto-dimming 	<ul style="list-style-type: none"> • 7" TFT LCD WSVGA (1024 x 600) • 500 nits brightness support auto-dimming • Capacitive multi touch (PCT)
 <p>Durability</p>	<ul style="list-style-type: none"> • IEC 60529 IP65 (except bottom side I/O) • MIL-STD-810H (vibration, shock) • Operating temperature : -20°C to +60°C 	<ul style="list-style-type: none"> • IEC 60529 IP65 (except bottom side I/O) • MIL-STD-810G (vibration, shock) • Operating temperature -30°C to +60°C
 <p>Communications</p>	<ul style="list-style-type: none"> • GNSS (GPS / GLONASS / BeiDou/ Galileo) • WiFi 802.11ac 2x2 MU-MIMO • Bluetooth V5.0 • 4G LTE / WCDMA / GSM • NFC 	<ul style="list-style-type: none"> • GNSS (GPS / QZSS or GLONASS or BeiDou) , Dead Reckoning support • Optional Wi-Fi 802.11 a/b/g/n/ac • Optional Bluetooth V4.0 Class2 • Optional 4G LTE / HSPA+ / GPRS • NFC / RFID by request
 <p>Function Button</p>	<ul style="list-style-type: none"> • Programmable button x 5 • Volume adjustment x 2 • System on/off x 1 	<ul style="list-style-type: none"> • Programmable button x 5 • Volume adjustment x 2 • System on/off x 1
 <p>I/O Interfaces</p>	<ul style="list-style-type: none"> • RS-232 with power supported x 1, RS-232 (TX/RX) x1, RS-422 x1 , RS-485 x1 • Gigabit Ethernet (RJ45) x 1 • USB 3.1 type C x 1 (DP Alt Mode support), USB 2.0 type A x 2 • Micro SD slot x 1, Micro SIM slot x 2 • CAN bus, or CAN bus module (supports SAE J1939) • DI x 2, DO x 2 • Audio headset jack x 1 • DC-in x 1 	<ul style="list-style-type: none"> • RS-232 with power supported x 1, RS-232/422/485 x 1 • Gigabit Ethernet (RJ45) x 1 • USB 3.0 x 1, USB 2.0 x 1 • Micro SD slot x 1, Micro SIM slot x 2 • CAN bus (SAE J1939 support) x 1 • DI x 2, DO x 2 • Audio headset jack x 1 • DC-in x 1
 <p>Power</p>	<ul style="list-style-type: none"> • 9~36 VDC input • Vehicle power protection (ISO7637-2) • UPS backup battery 	<ul style="list-style-type: none"> • 9~36 VDC input • Vehicle power protection (ISO7637-2) • UPS backup battery
 <p>Dimensions & Weight</p>	<ul style="list-style-type: none"> • 220 x 152 x 41 mm (8.8"x 6.1"x 1.6") (W x H x D) • 1.25 kg (2.75 lbs) 	<ul style="list-style-type: none"> • 220 x 152 x 41 mm (8.8"x 6.1"x 1.6") (W x H x D) • 1.25 kg (2.75 lbs)

Rugged Monitor



CHASER



Display

- 11.6" TFT LCD Full HD (1920 x 1080)
- 1000 nits high brightness
- Contrast Ratio: 1000:1
- Viewing Angle: 85°/85°/85°/85°
- Capacitive multi touch (PCT) with AR/ AF coating



Durability

- Waterproof (front panel) and MIL-STD-810H certified
- Vibration and shock resistance
- Operating temperature : -20° C to +60° C



Function Button

- Black out x 1, mute x 1, volume x 2, brightness x 2, video input select x 1



I/O Interfaces

- USB 2.0 type C x 1 (DP supported), USB 2.0 type A x 5, USB 2.0 type B x 1
- HDMI 1.4 x 1
- 3W stereo speakers with amplifier x 2
- Dc-in x 1



Dimensions & Weight

- 296 x 216 x 43 mm (11.8"x 8.6"x 1.7") (W x H x D)
- 1.8 kg (4 lbs)



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