

Rugged Tablets



PX501 (GEN III)



PX-501 (GEN II)



PM-521



System

- 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

- Intel® Core™ i5-5350U 1.8GHz
- 8GB DDR3L
- 128GB mSATA SSD, expandable up to 256GB
- OS option : Windows 10 IoT Enterprise

- Intel® Atom™ E3827 1.75 GHz
- 4GB DDR3L
- 128GB mSATA SSD, expandable up to 256GB
- OS option : Windows 10 IoT Enterprise



Display

- 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

- 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

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- 1000 nits brightness
- Capacitive 10-point multi-touch supports glove touch, water rejection, palm rejection, 2mm hard tip stylus
- Digitizer by request



Durability

- IP65, MIL-STD-810G & MIL-STD-461G certified
- Vibration & shock & 5' drop resistance
- Operating temperature : -20° C to +60° C

- IP65 & MIL-STD-810G certified
- Vibration & shock & 5' drop resistance
- Operating temperature : -20° C to +60° C

- IP65 & MIL-STD-810G certified
- Vibration & shock & 5' drop resistance
- Operating temperature : -20° C to +50° C



Communications

- Wi-Fi 802.11 a/b/g/n/ac
- Bluetooth V4.2
- GNSS (GPS/ GLONASS/ BeiDou)
- Optional 4G LTE

- Wi-Fi 802.11 a/b/g/n/ac
- Bluetooth V4.0 + EDR
- GNSS (GPS / Glonass / BeiDou)
- Optional 4G LTE

- Wi-Fi 802.11 a/b/g/n/ac
- Bluetooth V4.0 + EDR
- GNSS (GPS / Glonass / BeiDou)
- Optional 4G LTE
- Optional built-in NFC



Camera

- 2MP front camera
- 8MP auto focus rear camera with LED flash

- 2MP front camera
- 8MP auto focus rear camera with LED flash

- 2MP front camera
- 5MP auto focus rear camera with LED flash



Expansion Option

- 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

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- Snap-on connector easy for customization



I/O Interfaces

- 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

- USB 3.0 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

- 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



Security

- TPM 2.0
- Phoenix SecureWipe by request

- TPM 2.0
- Phoenix SecureWipe by request

- TPM 1.2
- Phoenix SecureWipe by request



Battery

- 4500mAh hot swappable battery
- Optional 9000mAh hot swappable battery
- Supports fast charging

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Dimensions & Weight

- 28 x 19.5 x 2.3 cm (W x H x D)
- 1.36 kg

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- 1.36 kg

Rugged Tablets



SOL PA501



PM-311B



PM-522



System

- Qualcomm® Snapdragon™ 660 Octa-Core, 1.9GHz up to 2.2GHz
- 3GB LPDDR4 RAM
- 32GB eMMC storage
- OS : Android 9.0, Google Mobile Services certified

- Intel® Celeron® N2930 1.83GHz
- 4GB DDR3L
- 128GB / 256GB SSD, optional FIPS 140-2 certified SSD (64~256GB)
- OS option : Windows 10 IoT Enterprise

- Intel® Atom™ E3827 1.75GHz
- 4GB DDR3L
- 64GB mSATA SSD, expandable up to 128GB / 256GB
- OS option : Windows 10 IoT Enterprise



Display

- 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

- 7" TFT LCD WSVGA (1024 x 600)
- 1000 nits brightness, optical bonding with AR/AF solution
- Capacitive 10-point multi-touch

- 10.4" TFT LCD XGA (1024 x 768)
- 350 nits, optional 700 nits sunlight readable
- Capacitive 10-point multi-touch



Durability

- IP65, MIL-STD-810G & MIL-STD-461G certified
- Vibration & shock & 5' drop resistance
- Operating temperature : -20° C to +60° C

- IP65 & MIL-STD-810G certified
- Vibration & shock & 5' drop resistance
- Operating temperature -20°C to 50°C

- IP65 & MIL-STD-810G certified
- Vibration & shock & 6' drop resistance
- Operating temperature -20°C to +50°C



Communications

- GNSS (GPS/ GLONASS/ BeiDou)
- Optional built-in NFC
- Wi-Fi 802.11ac 2x2 MU-MIMO
- Bluetooth V5.0
- 4G LTE

- NFC
- Wi-Fi 802.11 a/b/g/n/ac
- GNSS (GPS/ GLONASS/ optional BeiDou)
- Bluetooth V4.0 + EDR
- Optional 4G LTE

- Wi-Fi 802.11 a/b/g/n/ac
- Bluetooth V4.0 + EDR
- GNSS (GPS / GLONASS / BeiDou by request)
- Optional 4G LTE



Camera

- 8MP fixed focus front camera
- 13MP auto focus rear camera with LED flash

- 2MP front camera
- 8MP auto focus rear camera with LED flash

- 2MP front camera
- 5MP auto focus rear camera with LED flash



Expansion Option

- Built-in 2D barcode reader (OCR supported)
- Fingerprint reader
- Snap-on connector easy for customization

- 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)

- Magnetic stripe reader
- 2D barcode reader
- Smart card reader + GNSS 2-in-1 module



I/O Interfaces

- USB 3.1 type C x 1 (DP support) , 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

- 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 (support SDXC/ SDHC)
- Micro SD slot x 1, Micro SIM slot x 1
- Docking connector x 1
- DC-in x 1

- USB 3.0 type A x 1, USB 2.0 type A x 1
- Micro SIM slot x 1
- Audio headset jack x 1
- Micro SD slot x 1 (support SDXC/ SDHC)
- Docking connector x 1
- DC-in x 1



Security

- ARM® TrustZone®

- TPM 2.0
- Phoenix SecureWipe by request

- TPM 1.2



Battery

- 4500mAh hot swappable battery
- Optional 9000mAh hot swappable battery
- Supports fast charging

- 3200 mAh standard battery
- Optional 4200mAh hot swappable battery

- 3800 mAh standard battery
- Optional 4200 mAh hot-swappable battery



Dimensions & Weight

- 28 x 19.5 x 2.3 cm (W x H x D)
- 1.36 kg

- 22.5 x 16.8 x 2.7 cm (W x H x D)
- 0.95 kg

- 27.5 x 20.4 x 2.7 cm (W x H x D)
- 1.3 kg

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 32GB
- 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, 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/nr/rtk
- 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-232/422/485 x 1, RS-232 x 2, RS-485 x 2
- Gigabit Ethernet x 2
- USB 3.1 x 1, USB 2.0 x2, USB 3.1 type C x 1 (DisplayPort 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, OBD II by request) 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
- UPS backup battery

- 9~60 VDC input
- UPS backup battery



Dimensions & Weight

- 27.6 x 23.4 x 5.7 cm (W x H x D)
- 3.2kg

- 32.5 x 28 x 6.7 cm (W x H x D)
- 4.83 kg (4.90 kg with IPBOX)



VIKING



MT7000



System

- Qualcomm® Snapdragon™ 660 Octa-Core, 1.9GHz
- 3GB LPDDR4 SDRAM
- 32GB eMMC storage
- Built-in 3-axis G-sensor, dual speaker
- OS : Android 9.0, Google Mobile Services (GMS) certified

- 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



Display

- 7" TFT LCD WSVGA (1024 x 600)
- 500 nits brightness
- Capacitive multi touch (PCT)
- Support auto-dimming

- 7" TFT LCD WSVGA (1024 x 600)
- 500 nits brightness support auto-dimming
- Capacitive multi touch (PCT)



Durability

- IEC 60529 IP65 (except bottom side I/O)
- MIL-STD-810H (vibration, shock)
- Operating temperature : -20°C to +60°C

- IEC 60529 IP65 (except bottom side I/O)
- MIL-STD-810G (vibration, shock)
- Operating temperature -30°C to +60°C



Communications

- GNSS (GPS / GLONASS / BeiDou/ Galileo)
- WiFi 802.11ac 2x2 MU-MIMO
- Bluetooth V5.0
- 4G LTE / WCDMA / GSM
- NFC

- GNSS (GPS / QZSS or GLONASS or BeiDou) ,
optional 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



Function Button

- Programmable button x 5
- Volume adjustment x 2
- System on/off x 1

- Programmable button x 5
- Volume adjustment x 2
- System on/off x 1



I/O Interfaces

- RS-232 with power supported x 1, RS-232 /422/485 x 1
- 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

- 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



Power

- 9~36 VDC input
- Vehicle power protection (ISO7637-2)
- UPS backup battery

- 9~36 VDC input
- Vehicle power protection (ISO7637-2)
- UPS backup battery



Dimensions & Weight

- 22 x 15.2 x 4.1 cm (W x H x D)
- 1.25 kg

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- 1.25 kg