

PM810/PM810XL/PM813 Rugged Tablets

Slim, Rugged, Multi-functional Wireless Computing



The PM810, PM810XL and PM813 Rugged Tablets feature the integration of high brightness 10.1", 11.6" and 13.3" capacitive touch screens and high performance, energy-efficient Intel® Core™ i processors within slim, lightweight, durable packages. With built-in smart card/CAC reader, Wi-Fi and Bluetooth as well as optional data capture modules, these robust tablets offer seamless information capture and transmission for improved workflow. Rated IP65, MIL-STD-810G/461F and HERO certified with wide temperature range, the PM810, PM810XL and PM813 Rugged Tablets provide reliable operation in harsh, mission-critical environments.

Features

- 10.1", 11.6" or 13.3" high-brightness capacitive screens, digital pen support
- Intel® 8th Generation Core™ i5/i7 processor
- Microsoft® Windows® 10 IoT Enterprise operating system
- NIST compliant BIOS available
- IP65-rated for water and dust resistance
- MIL-STD-810G for shock and vibration protection
- MIL-STD-461F for EMI and EMC tolerance
- HERO (Hazard of Electromagnetic Radiation to Ordnance) certified
- Built-in smart card/CAC reader
- Detachable keyboard option for 2-in-1 applications



Applications

- First Responders
- Manufacturing
- Hospitality
- Control/Monitoring
- Finance
- Healthcare
- Entertainment/Gaming
- Education
- Construction
- Retail
- Military
- Government
- Logistics
- Smart Cities

Specifications



| Model | PM810 | PM810XL | PM813 |
|--|--|---|---|
| System | | | |
| CPU | Intel® Core™ i5-8250U, Quad-Core, 1.6GHz (up to 3.4GHz) Intel® Core™ i7-8550U, Quad-Core, 1.8GHz (up to 4.0GHz) | | |
| RAM | 8GB to 32GB | 8GB to 32GB | 8GB to 32GB |
| Storage | 256GB to 2TB Flash | 256GB to 2TB Flash | 256GB to 2TB Flash |
| Operating System | Microsoft® Windows® 10 IoT Enterprise | | |
| NIST Compliance | NIST compliant BIOS available | | |
| Display | 10.1" LED-backlight, high-brightness (1000 nits) screen with capacitive touch, outdoor viewable | 11.6" LED-backlight, high-brightness (1000 nits) screen with capacitive touch, outdoor viewable | 13.3" LED-backlight, high-brightness (1000 nits) screen with capacitive touch, outdoor viewable |
| Display Resolution | 1920 x 1200 | 1920 x 1080 | 1920 x 1080 |
| Control Switch and Buttons | 1 power button, 2 brightness control buttons, 5 programmable buttons | | 1 power button, 2 brightness control buttons, 5 programmable buttons |
| Speaker | Built-in speaker | Built-in speaker | Built-in speaker |
| Network Interface | | | |
| WLAN | Wi-Fi 802.11ac, 2.4GHz/ 5GHz dual band | | |
| Bluetooth | Bluetooth 4.2 LE | Bluetooth 4.2 LE | Bluetooth 4.2 LE |
| I/O Ports | | | |
| USB Ports | USB 3.0 x 1, USB Type C x 1 (data transmitting and charging) | USB 2.0 x 1, USB 3.0 x 1, USB Type C x 1 (data transmitting and charging) | USB 3.0 x 3, USB Type C x 1 (data transmitting and charging) |
| Headset Jack | 1 (3.5mm) | 1 (3.5mm) | 1 (3.5mm) |
| Ethernet Port | 1 | 1 | 1 |
| Smart Card/ CAC Reader | Full-slot, reads ISO 7816 T=0, T=1; 1.8/3/5V smart card | | |
| Mechanical and Environmental | | | |
| AC/DC Adapter | Input: 100-240V AC; Output: 20V DC, 3.25A | | |
| Battery Pack | Hot swappable battery, 11.4V, 5400mAh; Hot swappable battery, 11.4V, 8000mAh (optional) | | |
| Enclosure | ABS + PC plastics and magnesium-aluminum alloy | | |
| Dimensions (H x W x D) | 7.8 x 11 x 0.86 in/ 198 x 280 x 21.9 mm | 8.3 x 12.4 x 0.86 in/ 212 x 316 x 21.9 mm | 10.6 x 13.2 x 0.8 in/ 270 x 335 x 21 mm |
| Weight | 2.86 lbs/ 1.3 kg | 3.5 lbs/ 1.6 kg | 3.97 lbs/ 1.8 kg |
| Durability | IP65, MIL-STD-810G and MIL-STD-461F certified | | IP65 and MIL-STD-810G certified |
| Hazard of Electromagnetic Radiation to Ordnance (HERO) Testing | Yes | Yes | N/A |
| Regulatory | FCC Class B, CE, RoHS compliant | | |
| Temperature | Operation: -10°C to 60°C (-14°F to 140°F), optional -30°C to 60°C (-22°F to 140°F) Storage: -55°C to 70°C (-67°F to 158°F) | | |
| Humidity | 0% – 90% non-condensing | | |
| Major Options | | | |
| Barcode Scanner | 2D scanner, reads 1D also | | |
| Camera | 2 megapixel front camera, and 8 megapixel back camera; or, Intel® RealSense™ Depth back camera, supports distance capture for 3D scanning, environment sensing, and background segmentation applications | 2 megapixel front camera, and 8 megapixel back camera | |
| UHF RFID Reader | 865MHz – 928MHz, EPCglobal Class 1 Gen 2/ ISO 18000-6C; 16 feet (4.87m) read distance | 865MHz – 928MHz, EPCglobal Class 1 Gen 2/ ISO 18000-6C; 30 feet (9.14m) read distance | N/A |
| Long Range Bluetooth | Class 1 Bluetooth (1000 ft) | Class 1 Bluetooth (1000 ft) | N/A |
| GNSS Module | U-blox M8 GNSS module with concurrent reception of GPS and GLONASS; industry leading -167dBm navigation sensitivity | | |
| Mobile Broadband | 4G LTE/AWS | 4G LTE/AWS | 4G LTE/AWS |
| Antenna | N/A | N/A | Dual pass through antennas integrated in the docking cradle |

* Specifications subject to change without notice.