

PM80 Series

SMART BEYOND RUGGED ENTERPRISE MOBILITY

Powerful Qualcomm Snapdragon will free your work

Qualcomm's Snapdragon MSM8916 processor is a market-proven AP(Application Processor) which has Quad-Core with up to 1.4Ghz clock speed. It is truly SoC(System on a Chip) having 4G LTE, Wireless LAN, Bluetooth, S-GPS and Camera bus interface.

Latest Google Android Lollipop is the heart of the system

PM80 runs on Google's latest Android 5.x Lollipop Operating System and it is certified by Google CTS to support all Google official API including Google Play. Any applications based on Google API can be maximized in terms of performance including any 3rd party MDM(Mobile Device Management) solution like SOTI & Wavelink Avalnche.

Wider & Brighter IPS display provides better visibility

PM80 adopts 5.0" IPS panel TFT-LCD with capacitive touch screen and it supports wide-viewing angle and daylight redability in order to maximize the best performance in the out-field. To support harsh environment, top of screen is protected Asahi Dragontrail™ glass for maximum durability.

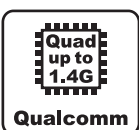
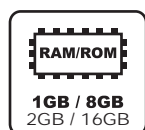










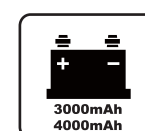

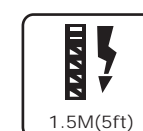
Frequently using 4 "HARD" keys towards field-work-forces

Most of Enterprise EDA in the market adopts capacitive-based touch button even for the most frequently used Home, Menu, Back button. Not every user prefer to use Stylus pen in the field, PM80 features with 4 hard keys : Home, Menu, Back button and plus user-programmable / assignable key, which is very essential forious field applications.

Powerful Wireless; 4G LTE & IEEE 802.11 a/b/g/n and versatile data-input funtions; 1D/2D, NFC & MSR

As of Enterprise mobility purposes, PM80 is completely tuned for Enterprise work-forces; smooth hand-over between WWAN and WLAN each other, seamless roaming among many routers & access points in the harsh working environment, because Enterprise users prior seamless connectivity to speed. Also, to provide various data input functions up on various customers' need, PM80 is built-in with latest 1D/2D imaging barcode scanner, NFC HF RFID 13.56Mhz & encrypted 3-track Magnetic Stripe Reader. Especially, MSR is an optional feature and it is free from any possible counterfeit and unauthorized data access thanks to PM80's data encryption technology. PM80 is truly hybrid because shape & design is following commercial smartphones but features are truly towards Enterprise users.



 Qualcomm Quad up to 1.4G	 RAM/ROM 1GB / 8GB 2GB / 16GB	 ANDROID 5.X LOLLIPOP	 WVGA 720x1280	 DAYLIGHT READABLE	 5" SCREEN CAPACITIVE ASAHI TEMPER GLASS	 4G LTE	 802.11 a/b/g/n
 NFC	 IMAGER	 8M REAR 2M FRONT	 BLUETOOTH	 Built-in GPS	 3000mAh 4000mAh	 IP67	 1.5M(5ft)

Technical Specifications

Physical characteristics

Dimensions: 155 x 83 x 24mm (6.1x3.3x0.9 in)
 Weight: 292g (10.3oz) with Standard battery

Environmental

Operating: -20°C to 60°C (-4°F to 140°F)
 Storage: -40°C to 70°C (-40°F to 158°F)
 Relative Humidity: Non-condensing, 95%
 Rain & Dust Proof: IP67
 Drop: 1.5m (5 ft) per MIL-STD 810G
 at all operating temperature
 Tumble: 250cycle (500hit) @ 1m (3.3ft)
 ESD: 15 kV air, 8 kV contact

Power

Standard Battery: 3,000mAh Li-ion rechargeable
 Extended Battery: 4,000mAh Li-ion rechargeable

Operating System

Google Android 5.x Lollipop
 (CTS & GMS is certified)
 Windows 10 mobile (Q1 2016)

Micro-Processor

Qualcomm MSM8916 @ up to 1.4Ghz Quad-core

Memory and Storage

Memory: 1GB / 2GB (Optional) RAM
 ROM: 8GB / 16GB (Optional) NAND Flash
 User-accessible micro-SD cards up to 32GB SDHC

Display

5.0 in, IPS panel, 720 x 1280 pixel (WVGA)
 Asahi Dragontrail™ Glass, Daylight readable, Wide
 viewing angle, Capacitive touch, Anti-raindrop

Standard Communications

Full speed USB 2.0 from either cradle or
 USB direct sync cable

Camera

8.0MP(Rear) with LED flash and 2.0MP(Front)

Keypad Options

4 hard keys (Home, Menu, Back & Programmable)

Sensors

Accelerometer, Ambient Light Sensor,
 Proximity Sensor.

Wireless WAN

EDGE/GPRS/GSM:850/900/1800/1900
 WCDMA: 850/900/1900/1700/2100 MHz
 LTE: FDD2, FDD3, FDD4, FDD5, FDD13, FDD17

Wireless LAN

IEEE 802.11 a/b/g/n Data rates: up to 150 Mbps
 Operating channels: 1 to 13 (2.4Ghz & 5Ghz)
 Regulatory compliance: As per IEEE 802.11n
 Security: WEP / WPA / WPA2 and more
 Authentication: PEAP/MS-CHAPv2, EAP-TLS

Wireless PAN

Integrated Bluetooth Class II, Ver.4.0
 Operating channels: 0 to 78 (2402-2480 Mhz)
 Data Rates: 1, 2, 3 Mbps

Global Positioning System

12 channel integrated GPS: assisted via WAN carrier:
 accuracy within 3m, Stand-alone GPS available
 support GLONASS

NFC (Near Field Communcation)

P2P NFC with 1 SAM slot (13.56Mhz HF RFID)
 Supported Tag-Ics : MIFARE® 1k/4k/Plus,
 MIFARE UltraLight, MIFARE UltraLight C,
 MIFARE DESFire, MIFARE DESFire EV1,
 ISO 14443 A & B

Magnetic Stripe Reader (Optional)

3 track MSR with water proof sealed.
 ANSI / ISO7813 standard, Encrypted.

Integrated Barcode Reader

1D/2D Imager : supporting all 1D/2D standard
 Symbology including GS1 Databar

LED Indicator and Scan Alert

Indicator: 2 x dual color LEDs on front:
 1) Power, 2)Warning, 3)Scan reading
 Scan Alert: Vibration

Audio Support

Supports VoIP, Built-in two microphone (Noise-
 cancelling), speaker, receiver and headset jack
 (3.5mm), Wireless Bluetooth headset support

Accessories

Standard accessories: AC/DC power adaptor &
 country plug, Capacitive Stylus pen & tether,
 Hand strap, Battery, LCD protection film
 Optional accessories: Single-slot cradle,
 4-slot Cradle, Extended battery, 4-slot Battery Charger,
 USB sync cable, Vehicle mount

Regulatory Approvals and Compliance

Certificated CE & GCF, FCC & PTCRB,IC,
 CCC & SRRC & NAL ,KC, TELEC & JATE, CB,RCM
 Environmental: RoHS II & WEEE compliant

Standard accessories



Optional accessories



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