

# PM80

## SMART BEYOND RUGGED ENTERPRISE MOBILITY

### Powerful Qualcomm Snapdragon will free your work

Qualcomm's Snapdragon MSM8916 processor is market-proven AP(Application Processor) which has Quad-Core with 1.4Ghz clockspeed. 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 Point Mobile's data encryption technology. PM80 is truly hybrid because shape & design is following commercial smartphones but features are truly towards Enterprise users.



 <b>Qualcomm</b>	 <b>RAM/ROM</b> 1GB / 8GB 2GB / 16GB	 <b>ANDROID 5.X</b> <b>LOLLIPOP</b>	 <b>WVGA</b> <b>1280x768</b>	 <b>DAYLIGHT</b> <b>READABLE</b>	 <b>5" SCREEN</b> <b>CAPACITIVE</b> <b>ASAHI</b> <b>TEMPER GLASS</b>	 <b>4G LTE</b>	 <b>802.11 a/b/g/n</b>
 <b>NFC</b>	 <b>IMAGER</b>	 <b>8M REAR</b> <b>2M FRONT</b>	 <b>BLUETOOTH</b>	 <b>Built-in GPS</b>	 <b>3000mAh</b> <b>4000mAh</b>	 <b>IP67</b>	 <b>1.5M(5ft)</b>

## 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 @ 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, 1280 x 768 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

### Integrated Camera

8.0MP(Rear)/2.0MP(Front) color with LED flash

### 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

Safety: EMC, UL, RF, LED approvals  
Radio: FCC, CE, KCC Marks  
Environmental: RoHS II & WEEE compliant

### Standard accessories



AC/DC  
Power Adaptor



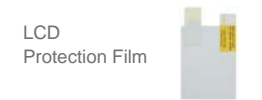
Standard  
Battery



Stylus Pen  
And Tether



Wrist Strap



LCD  
Protection Film

### Optional accessories



USB  
Sync cable



Single-slot  
Cradle



4-slot Battery  
Charger



4-slot Cradle



Vehicle mount

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