

# PM80ID

## 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 1.2GHz clock speed. It is truly SoC(System on a Chip) having 4G LTE, Wireless LAN, Bluetooth, S-GPS and Camera bus interface.

### Google Android 6.0.1 Marshmallow is the heart of system

PM80ID runs on Google's latest Android 6.0.1 Marshmallow Operating System and it is certified by Google Mobile Services (GMS) to support all Google official API including Google Play and Google Maps

### Wider & Brighter IPS display provides better visibility

PM80ID adopts 5.0" IPS panel TFT-LCD with capacitive touch screen and it supports wide-viewing angle and daylight readability in order to maximize the best performance in the out-field. To support harsh environment, top of screen is protected Corning Gorilla Glass 3 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 Recent App, Home, Back button. Not every user prefer to use Stylus pen in the field, PM80ID features with 4 hard keys : Home, Menu, Back button and plus user-programmable / assignable key, which is very essential for various field applications.



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

As of Enterprise mobility purposes, PM80ID 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, PM80ID is built-in with latest 1D/2D imaging barcode scanner, NFC HF RFID 13.56MHz & encrypted 3-track Magnetic Stripe Reader. 3-track Magnetic Stripe Reader as well as Level 1&2 certified IC Card Reader integrated. 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. PM80ID is truly hybrid because shape & design is following commercial smartphones but features are truly towards Enterprise users.

 Qualcomm	 2GB / 16GB	 ANDROID 6.0.1	 5.0" HD 720x1280	 DAYLIGHT READABLE	 GORILLA GLASS 3	 4G LTE	 802.11 a/b/g/n	 1.2M(4ft)
 NFC	 IMAGER	 8M REAR 2M FRONT	 BLUETOOTH	 Built-in GPS	 3000mAh 4000mAh	 IP67	 MSR	 IC READER

# Technical Specifications

## Physical characteristics

Dimensions:  
156 x 82 x 22mm / 6.1x3.2x0.9 in (With MSR)  
Weight:  
293g / 10oz(With MSR) including battery

## Environmental

Operating: -20°C to 60°C (-4°F to 140°F)  
Storage: -25°C to 70°C (-13°F to 158°F)  
Relative Humidity: Non-condensing, 95%  
Water & Dust Proof: IP67  
Drop: 1.2m (4ft) 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 6.0.1 Marshmallow  
(CTS & GMS certified)

## Micro-Processor

Qualcomm MSM8916 1.2GHz Quad-core

## Memory and Storage

RAM: 2GB  
ROM: 16GB  
NAND Flash User-accessible  
micro-SD cards up to 32GB SDHC

## Display

5.0 in, IPS panel, 720 x 1280 pixel (HD)  
Corning Gorilla Glass®, Daylight readable (500 nits typical),  
Wideviewing 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 physical keys (Recent Apps, Home, Back &  
Programmable)

## Sensors

Gyroscope, Accelerometer, Light Sensor &  
Proximity Sensor.

## Global Positioning System

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

## Wireless WAN

EDGE/GPRS/GSM:850/900/1800/1900  
WCDMA: 850/900/1900/1700/2100 MHz  
LTE: FDD2, FDD3, FDD4, FDD5, FDD7,  
FDD8, FDD20, FDD17

## Wireless LAN

Radio : IEEE 802.11a/b/g/n/d/h/i/k/r/v, IPv4, IPv6, 1X1 SISO.  
IEEE 802.11a/n Data Rates: Up to 150 Mbps;  
IEEE 802.11b/g/n Data Rates: Up to 72.2 Mbps  
Operating Channels: 1 to 13 (2412~2472MHz),  
36 to 165 (5180~5825MHz)  
Channel Bandwidth : 20, 40 MHz  
Security and Encryption : WEP(40 or 104bit)  
WPA/WPA2 Personal(TKIP, AES);  
WPA/WPA2 Enterprise(TKIP/AES) - PEAP(MSCHAPv2, GTC),  
TLS, TTLS(PAP, MSCHAP, MSCHAPv2, GTC), PWD, SIM,  
AKA, AKA', FAST(MSCHAPv2, GTC), LEAP  
Fast Roam : PMKID Caching : Cisco CCKM, 802.11r

## Wireless PAN

Integrated Bluetooth Class II, Ver.4.0  
LE operating: 0 to 78 (2402-2480 MHz)  
Data Rates: 1, 2, 3 Mbps

## 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

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

## IC Card Reader

Level 1 & Level 2 certified  
ISO7816-1/-2/-3/-4 fully compatible  
(Debit & credit card payment acceptable in case of  
No PIN required transaction)

## 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, Stylus pen & tether, Wrist Landyard,  
Battery, LCD protection film  
Optional accessories: Single-slot cradle, 4-slot Cradle,  
Extended battery, 4-slot Battery Charger,  
I/O sync USB Cable, Vehicle mount charging cradle,  
Cigar jack charger

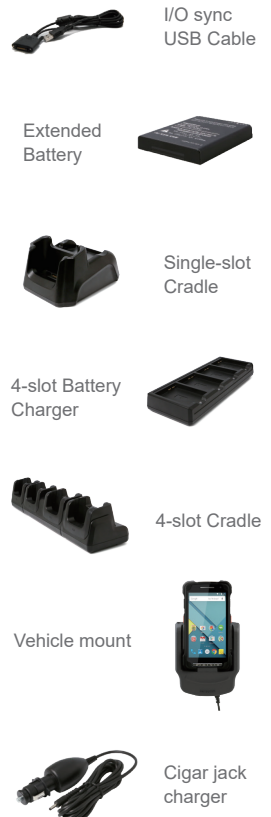
## Regulatory Approvals and Compliance

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

## Standard accessories



## Optional accessories



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