

PM80

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 & Microsoft Windows 10 IoT Enterprise are the heart of system

PM80 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. Now, New Windows 10 IoT is released and available. You can choose and enjoy Win 10 with best selling product, PM80.

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 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, PM80 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

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.



 Quad 1.2G Qualcomm	 RAM/ROM 1GB / 8GB 2GB / 16GB	 ANDROID 6.0.1 WINDOWS 10	 5.0" HD 720x1280	 DAYLIGHT READABLE	 GORILLA GLASS 3	 4G LTE	 802.11 a/b/g/n
 NFC	 IMAGER	 8M REAR 2M FRONT	 BLUETOOTH	 Built-in GPS	 3000mAh 4000mAh	 IP67	 1.2M(4ft)

Technical Specifications

Physical characteristics

Dimensions:
156 x 82 x 21mm / 6.1x3.2x0.8 in (Without MSR)
156 x 82 x 22mm / 6.1x3.2x0.9 in (With MSR)
Weight: 279g / 9.8oz(Without MSR),
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%
Rain & 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 is certified)
Windows 10 IoT Enterprise Mobile

Micro-Processor

Qualcomm MSM8916 1.2GHz Quad-core

Memory and Storage

RAM: 1GB / 2GB
ROM: 8GB / 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 3, Daylight readable,
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.

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

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

Global Positioning System

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

NFC (Near Field Communication)

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, 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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