

# PM80hc

## ULTRA RUGGED HEALTH CARE SMART PHONE

### 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 5.0 & Microsoft Windows 10 IoT Enterprise are the heart of system

PM80 runs on Google's latest Android 5.0 Lollipop 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 redability 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 "Physical" 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 physicalkeys : Home, Menu, Back button and plus user-programmable / assignablekey, which is very essential forious field applications.

### PM80hc does its part for the medical and healthcare industry

With all above features, PM80hc committed to healthcare data collection and communication worklows that enhance patient safety and quality of care. Also supports screen interation with gloves such as latex gloves which commly used in a hospital field. Moreover the PM80hc adopts resin which is strongly protective from alcohol corrosion. It has been tested and approved with 4type of different cleaner such as PDI Super Sani-Wipes, PDI Sani-Cloth Plus, Metrex Caviwipes, and Clorox Dispatch with Bleach.



 Qualcomm	 2GB / 16GB	 ANDROID 5.0 WINDOWS 10	 5.0" HD 720x1280	 DAYLIGHT READABLE	 GORILLA GLASS	 4G LTE	 802.11 a/b/g/n
 NFC	 IMAGER	 8M REAR 2M FRONT	 BLUETOOTH	 Built-in GPS	 3000mAh 4000mAh	 IP54	 1.2M(4ft)

# Technical Specifications

## Physical characteristics

Dimensions: 156 x 82 x 21mm (6.1x3.2x0.8 in)  
Weight: 279g (9.8oz) with Standard 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: IP54  
Drop: Multiple 1.2m (3.9 ft) drops per MIL-STD 810G to concrete.  
Tumble: 150cycle (300hit) @ 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 5.0 Lollipop  
(CTS & GMS is certified)  
Windows 10 IoT Enterprise Mobile

## Micro-Processor

Qualcomm MSM8916 @ up to 1.2GHz Quad-core

## Memory and Storage

Memory: 2GB RAM  
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.

## 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  
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, 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

## Instruction For Cleaning

Do not apply liquid directly to the  
PM80hc. Dampen a soft cloth or  
use pre-moistened wipes.  
Be careful not to let liquid pool  
around the display window or  
other places. Allow the unit to air  
dry before use.

## Harmful Ingredients

The following chemicals at certain  
concentrations and/or combinations are  
known to damage the plastics  
for the PM80hc mobile computers  
and should not come in contact with  
the device: ammonia solutions,  
compounds of amines or ammonia;  
acetone; ketones; ethers; aromatic  
and chlorinated hydrocarbons;  
aqueous or alcoholic alkaline  
solutions; ethanolamine; toluene;  
trichloroethylene; benzene;  
carbolic acid; TB-lysoform.

## Approved Cleanser

Due to the requirements of many  
use cases, the following products  
have been tested and approved  
for use with the PM80hc:  
PDI Super Sani-Wipes,  
PDI Sani-Cloth Plus,  
Metrex Caviwipes, and  
Clorox Dispatch with Bleach.  
Please note that some of these  
products have chemicals listed  
above as harmful, but the levels  
of concentration and combination  
with other chemicals for these  
listed products have shown to  
not cause an issue. Contact the  
service desk with any questions  
regarding approved cleaners  
and disinfectants for PM80hc.

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