PM80-IR IrDA version
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 5.0.2 or 6.0.1 are the heart of system

PM80 runs on Google's Android 5.0.2 or 6.0.1 Operating System and it is certified by Google Mobile Services (GMS) to support all Google official API including Google Play.

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 yours field applications.

IrDA Communication

An integrated IrDA module allows data transfer in EVA-DTS standard. This solution is perfect for collecting accounting data from vending machines and payment systems quickly and easily.

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

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. PM80 is truly hybrid because shape & design is following commercial smartphones but features are truly towards Enterprise users.

Quad 1.2GHz Qualcomm	RAM/ROM 2GB / 16GB	EmKit SUPPORT	5.0" HD 720x1280	DAYLIGHT READABLE	GORILLA GLASS	4G LTE	802.11 a/b/g/n

FAST ROAMING	IMAGER	8M REAR 2M FRONT	BLUETOOTH	Built-in GPS	IRDA	IP67	1.2M(4ft)

PM80-IR

PHYSICAL CHARACTERISTICS

Dimensions
156mm L x 82mm W x 21mm D

Weight
279g / 9.8oz

Display
5.0", IPS panel (720 x 1280 pixel) HD
Corning Gorilla Glass®
Daylight readable (500 nits typical)
Wideviewing angle
Capacitive touch
Anti-raindrop

Power
Standard Battery — 3,000mAh Li-ion rechargeable

Keypad
4 physical keys
(Recent Apps, Home, Back &
Programmable)

Audio Support
Supports VoIP
Two built-in microphones (Noise-cancelling)
Speaker
Receiver and headset jack (3.5mm)
Wireless Bluetooth headset support

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

Notification
Front — 2 x dual color LEDs for Power, Warning, & Scan reading

Scan Alert — Vibration

PERFORMANCE CHARACTERISTICS

Main-Processor
Qualcomm MSM8916 @ 1.2GHz Quad-core

Operating System
Google Android 5.0.2 or 6.0.1
(CTS & GMS is certified)

Memory and Storage
RAM	2GB
ROM	16GB
NAND Flash	Slot
Micro-SD	Micro-SD card slot supports up to 32GB SDHC

Sensor
Gyroscope, Accelerometer, Light Sensor
Proximity Sensor

USER ENVIRONMENT

Operating Temperature
-20°C to 60°C / -4°F to 140°F

Storage Temperature
-25°C to 70°C / -13°F to 158°F

Humidity
95% Non-condensing

Drop
MIL-STD 810G for 1.2m (4ft) over the operating temperature

Water / Dust Proof (Sealing)
IP67

Tumble
250cycle (500hits) at 1m / 3.3ft

Electrostatic Discharge
±15 kV air discharge
±8 kV contact discharge

DATA CAPTURE

Camera
Rear — 8.0MP with LED flash
Front — 2.0MP

Integrated Barcode Reader
1D/2D Imager — All 1D/2D standard symbology including GS1 databar

GLOBAL POSITIONING SYSTEM

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

WIRELESS

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
Data Rates	IEEE 802.11a/n: Up to 150 Mbps; IEEE 802.11b/g/n: 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
Bluetooth Channels	Integrated Bluetooth Class II, Ver. 4.0 0 to 78 (2402-2480MHz)
Data Rates	1, 2, 3Mbps

Infrared
IrDA — Supporting EVA-DTS data retrieval
Supporting DDCMP Ir
Supporting DEX Ir

REGULATORY APPROVALS AND COMPLIANCE

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

ENTERPRISE SOLUTION

SOTI, Airwatch, Teamviewer

EmKit

Power Launcher	Kiosk mode with system restriction Allows admin to restrict operator's access to system settings, MTP connection and screen capture
Direct Clone	Master PDA becomes a local server for a nearby Point Mobile device to automatically communicate and download/restore backup files
Scan2Set	Unique two-step feature for Point Mobile Android models that enables the fastest device deployment right out of the box

ACCESSORIES

Standard Accessories
- AC/DC Power Adaptor
- Standard Battery
- Stylus Pen and Tether
- Wrist Landyard
- LCD Protection Film

Optional Accessories
- I/O sync USB Cable
- Extended Battery
- Single-Slot Cradle
- 4-Slot Battery Charger
- 4-Slot Cradle
- Vehicle Mount
- Cigar Jack Charger
- Gun-Handle

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