

# PM70

## POCKET-SIZED ENTERPRISE RUGGED SMARTPHONE

### Powerful Qualcomm Snapdragon will empower your work

Qualcomm's Snapdragon MSM8916 processor is a market-proven AP(Application Processor) which has Quad-Core with up to 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

PM70 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

PM70 adopts 4.3" 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 outfield. To support harsh environment, top of screen is protected Corning Gorilla Glass 3 tempered glass.

### Frequently-using Android "HARD" keys towards field-work-forces

Most of Enterprise rugged phones in the market adopt a touch-based key button, even for Recent App, Home, Back button. Not every user wearing gloves prefers to use a stylus pen in the field, PM70 comes with "hard" laser-cut keys – to ease to press it firmly.

### Powerful Wireless; 4G LTE & IEEE 802.11 a/b/g/n/d/h/i/r and Bluetooth 4.1 LE

As of Enterprise mobility purposes, PM70 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. PM70's 4G LTE category 4 is truly designed for covering all worldwide including United States and Europe. Newest Bluetooth Low Energy supports dramatic low power consumption and 3x faster speed than previous Bluetooth version, which specification is getting more critical at location-based solutions like Beacon.

### Compact pocket-sized but yet still rugged design

PM70 is designed not only for Line-of-Business workers but also white-collar businessmen, therefore, compact-sized but adopts latest 1D/2D barcode scanners and replaceable & hot-swap supporting 3,000mAh battery. To be survived and to be used for long time in outfield, PM70 is sealed completely to be submerged for 30minutes at 1meter-depth water, and is shock-proof with Gorilla Glass 3 and 1.2m(4ft) multiple drop-resistant.



 Quad 1.2G Qualcomm	 RAM/ROM 2GB / 16GB	 ANDROID 6.0.1	 WVGA 800X480	 DAYLIGHT READABLE	 GORILLA GLASS 3	 4G LTE	 802.11 a/b/g/n
 NFC	 IMAGER	 13MP REAR 2MP FRONT	 BLUETOOTH	 Built-in GPS	 3000mAh	 IP65	 1.2M(4ft)

## Technical Specifications

### Physical Characteristics

Dimensions with battery:  
70mm x 136mm x 17.4mm (2.76 x 5.35 x 0.69 inch)  
Weight: 213g (7.5oz) with 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: IP65  
Drop: Multipul 1.2m(4 ft) drops to steel at room temperature only  
Electrostatic Discharge:  
+/- 15 kV air discharge +/- 8 kV contact discharge

### Power

Battery : Li-Ion, 3.8V 3,000mAh,  
Rechargeable, UN38.3 certificate,  
UL2054/UL1642,IEC62133 KC/PSE  
Supports micro USB charging

### Wireless Charging

Wireless charging pad (Optional)  
Complying with WPC standard Qi  
Using inductive charging technology

### Operating System

Google Android 6.0.1 Marshmallow  
(CTS & GMS certified)

### Micro-Processor

Qualcomm MSM8916 @ 1.2GHz Quad-core

### Memory and Storage

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

### Display

4.3 in. IPS panel WVGA (480 x 800 pixel),  
exceptionally bright, outdoor viewable,  
optically bonded to touch

### Touch Panel

Multi-touch capacitive touch panel,  
optically bonded with Corning Gorilla glass for  
strong and rugged durability. Works even when  
wet and with many off-the-shelf gloves.

### Standard Communications

High speed USB 2.0 from cradle and Micro-USB port

### Camera

13MP(Rear) autofocus with LED flash and  
2.0MP(Front) fixed focus

### Keypad Options

3 hard keys (Recent, Home & Back)

### Sensors

Accelerometer, Ambient light sensor, Proximity sensor,  
Gyro and Digital compass

### Wireless WAN

4G : LTE (B1,2,3,5,7,8,17,20,40,41)  
3G : UMTS/HSDPA/HSUPA/HSPA/HSPA+ (B1/2/5/6/8/19)  
2G : GSM/GPRS/EDGE (900/1800 MHz)

### Wireless LAN

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 (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 I, Ver. 4.1  
Operating Channels: 0 to 78 (2402-2480MHz)  
Data Rates: 1, 2, 3Mbps

### Global Positioning System

12 channel integrated GPS:  
Assisted via WAN carrier, Support GLONASS

### NFC (Near Field Communication)

ISO14443A, ISO14443B & ISO15693 are  
supportive, 13.56MHz HF  
\*Supported Tag-Ics:  
MIFARE® 1k, MIFARE 4k, MIFARE Plus,  
MIFARE UltraLight, MIFARE UltraLight C,  
MIFARE DESFire, MIFARE DESFire EV1,  
ISO 14443A/B tags,

### Integrated Barcode Scanner

2D Imager scanner: Supporting all 1D/2D standard  
symbology including GS1 databar

### LED Indicator & Scan Alert

Indicator: 2 x dual color LEDs on front.  
1) Power indications, 2) Warning indications,  
3) Scan reading  
Scan Alert: Vibration, beep

### Audio Support

Support 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, Standard battery, LCD protection film,  
USB cable  
Optional Accessories: Wireless charging pad,  
Single-slot cradle, 4-slot cradle, 4-slot battery charger,  
Jelly case

### Standard accessories

AC/DC  
Power Adaptor



Country Plug

Standard  
Battery



LCD  
Protection Film

### Optional accessories



USB Cable

Wireless  
Charging Pad



Single-slot  
Cradle

4-slot Cradle



4-slot Battery  
Charger

Jelly Case



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