

# PM90

## MOST POWERFUL RUGGED ANDROID DEVICE REDEFINING MOBILITY

### Our bestseller just got even better

It does take a lot to make a truly versatile handheld terminal which is suitable for almost any industry. Innovative technology, robust design and years of experience made our PM80 a massive success. Now we gave it a huge upgrade, refined and optimized it, while keeping the features that made it so popular. A new 2.2GHz Octa-core processor powers the Android 11 operating system that the PM90 runs on with 4GB RAM and 64GB ROM memory as a standard option. The bright 5" display was completely redesigned and shows crystal clear information from any angle. All of the hardware buttons (except the power key) can be individually programmed with the pre-installed EmKit. We gave it a new Honeywell Slim Imager Engine for convenient, reliable and fast barcode scanning. And we gave it a bigger battery with 2,900mAh capacity as standard, with an optional extended version with 5,800mAh. We just gave it so much more, while keeping the timeless design with only a little retouch overall. The housing is now ink black which gives it a smooth and stylish finish.

### Seven years support: The new PULS program

We extended the lifetime of the PM90 to up to seven years after the market launch. During that period, we will continuously supply security patches, updates and even upgrades to newer Android versions. Installing updates via the pre-installed FOTA (Firmware over the Air) application is fast and convenient as users can perform the update on their own without having to collect all devices from the field. There is no downtime and all data remains safe on the device while only those parts that require fixing will be updated.



#### Industries

- Retail
- Field Services
- Public Sector
- Transport & Logistics
- Hospitality

#### Accessories

##### Standard

- AC/DC Power Adaptor
- Country Plug
- USB Type-C Cable
- Standard Battery
- Wrist Lanyard
- LCD Protection Film

##### Optional

- Extended Battery
- Single Slot Cradle (opt. Ethernet)\*
- 4 Slot Battery Charger
- 4 Slot Cradle

- UHF RFID Reader RF900
- Stylus Pen and Tether
- Gun Handle

\*Caution: for use with RF900, Single Slot Cradle for RF900 (charging only) is required.


**PERFORMANCE CHARACTERISTICS**

**Main-Processor**  
Qualcomm Snapdragon @ 2.2GHz Octa-core

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**Operating System**  
Google Android      Android 9 or 11 (upgradeable to Android 14)  
(GMS certified)      FOTA (Firmware Over The Air) update

**Memory and Storage**

RAM / ROM      4GB / 64GB or 3GB / 32GB (optional)  
Expansion Slot    User accessible MicroSD up to 32GB SDHC  
SAM              2 Micro SAM slot  
SIM                1 SIM card slot

**Sensor**      Proximity sensor, Light Ambient sensor, Accelerometer, Gyro and Digital Compass

**PHYSICAL CHARACTERISTICS**

**Dimensions (LxWxD)**

STD battery      156.42mm x 81.96mm x 21.50mm  
6.16in x 3.23in x 0.85in

EXT battery      156.42mm x 81.96mm x 23.92mm  
6.16in x 3.23in x 0.94in

MSR with STD/EXT batt.      156.42mm x 81.96mm x 27.10mm  
6.16in x 3.23in x 1.07in

**Weight**

STD batt.      272g / 9.59oz  
EXT batt.      322g / 11.36oz  
MSR with STD batt.      284g / 10.02oz  
MSR with EXT batt.      334g / 11.78oz

**Display**      5.0", IPS panel (720 x 1280 pixel) HD LED backlight  
Daylight readable (500 nits)  
Wideviewing angle  
Multi-touch capacitive  
Corning Gorilla glass

**Power**

STD Battery      2,900mAh Li-ion rechargeable  
EXT Battery      5,800mAh Li-ion rechargeable  
Back-up Battery    60mAh (10C) Li-ion rechargeable (Hot-Swap)

**Keypad**      9 physical keys  
(all keys are programmable excluding the Power key)

**Voice and Audio**      Two built-in microphones (noise-cancelling)  
Speaker, max 1W  
Receiver and headset jack (3.5mm)  
Bluetooth headset support  
PTT support

**Standard Communications**      High speed USB 3.0  
(supports battery charging PC, USB memory, digital headset)

**Notification**

LED              Power (Charging, Battery Fault)  
Notification (Message, Scan)

Vibration

**GLOBAL POSITIONING SYSTEM**

**GPS**

WiFi SKU : No GPS  
Phone SKU : Qualcomm GPS  
GNSS Receiver Support for GPS, GLONASS, Galileo and Beidou

**WIRELESS**

**Wireless WAN**

EDGE/GPRS/GSM      900/1800/850/1900  
WCDMA              B1/2/4/5/6/8/19  
LTE FDD              B1/2/3/4/5/7/8/12/13/14/17/19/25/26/20/28  
LTE TDD              B38/B39/B40/41  
2xCA support      B1+B5/B7/B8/B19  
B3+B5//B8/B19  
B2+B5/B17  
B4+B5/17  
B5+B7  
Cat6. 300M DL/ 50M UL

**Wireless LAN**

Radio              IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v  
2x2 MU-MIMO(Wi-Fi SKU),  
1x1 SISO(Phone SKU)

Data Rates      5GHz: 802.11a/n/ac: Up to 866.7 Mbps  
(Up to 433 Mbps for Phone SKU)  
2.4GHz: 802.11b/g/n: Up to 300 Mbps  
(Up to 150 Mbps for Phone SKU)

Operating Channels      1 to 13 (2412~2472MHz)  
36 to 165 (5180~5825MHz)

Channel Bandwidth      20, 40, 80 MHz

**Security and Encryption**

WEP (40 or 104bit)  
WPA/WPA2 Personal (TKIP, AES)  
WPA/WPA2 Enterprise (TKIP/AES) -  
WPA3 Personal (SAE)\*  
WPA3 Enterprise (AES)\*  
WPA3 Enterprise 192-bit mode (GCMP 256)\*  
Enhanced Open (OWE)\*  
PEAP (MSCHAPv2, GTC),  
TLS, TTLS (PAP, MSCHAP, MSCHAPv2, GTC)  
PWD, SIM, AKA, AKA', LEAP

Fast Roam      CCKM, 802.11r

\*Supported on Android 11 devices only

**Wireless PAN**

Bluetooth      Integrated Bluetooth Class I, Ver. 5.0 BLE support

**DATA CAPTURE**

**NFC (Near Field Communication)**

NFC-Forum      Reader For NFC Forum (Tag Types 1 To 5),  
(NFC-IP MODES)      P2P Active (106 To 424 kbps) Initiator and Target, P2P Passive (106 To 424 kbps) Initiator and Target

Reader (PCD - VCD)      ISO/IEC 14443 A, ISO/IEC 14443 B  
ISO/IEC 15693, Mifare Classic 1K/4K  
Mifare DESFire, Mifare UltraLight®, Sony FeliCa

**Camera**

Rear              13MP with LED flash  
Front              5MP

**Integrated Barcode Reader**

Honeywell N6703 Slim Imager Engine (1D/2D barcode symbologies)

**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**      1.5m (5ft) multiple drops to concrete, across operating temperature range, based on MIL-STD 810G

**Water / Dust Proof (Sealing)**      IP67

**Tumble**      1,000 cycle (2,000hits) at 1m / 3.3ft

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

**REGULATORY APPROVALS AND COMPLIANCE**

Certified CE, CB, GCF, PTCRB, RCM, TELEC, JATE, KC, IC, FCC, CEC, CU, FAC  
Environmental: RoHS III & WEEE compliant

**ENTERPRISE SOLUTION**

SOTI, Airwatch, Teamviewer



**Scan2Stage**      PC tool for provisioning Point Mobile Android devices. With Scan2Stage, IT administrator can prepare the settings of the device and make QR code for Scan2Set.

**EmKiosk**      Kiosk application for Point Mobile devices. IT administrator can restrict the scope of the operator's system execution via EmKiosk to increase productivity and prevent distractions.

**Direct Clone**      Solution for restoring the devices to the same settings with no internet connection. With Direct Clone, a Master PDA becomes a hotspot server and sends its backup file to nearby client devices to clone the settings.

**PULS - ANDROID UPDATE & SECURITY**

PULS is Point Mobile's lifetime solution, which extends the life cycle of Android-based Point Mobile enterprise devices to up to seven years after a product launch.



Stay up-to-date with the latest updates for 7 years  
PULS comes free of charge for security patches & updates  
Get the latest Android version and its newest features  
Conveniently update your devices in the field by FOTA

For further information, please visit [www.pointmobile.com](http://www.pointmobile.com) or contact your regional sales representative.

**WARRANTY**

Subject to the Terms and Conditions, PM90 carries 1 (one) year-warranty period from the date of purchase against the defective materials and manufacturing defects.

For the further inquiry, please contact: [service@pointmobile.com](mailto:service@pointmobile.com)

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