

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

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
symbolologies)

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.



Patches, Updates & Lifetime Support

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 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.

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