POINT Mobile

# 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 9 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.
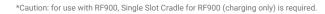
android
enterprise
recommended

### 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.

| OCTA CORE QUALCOMM 2.2GHZ | RAM/ROM 4GB/64GB 3GB/32GB | ANDROID 9 | 5" HD 720x1280 | DAYLIGHT READABLE | GORILLA GLASS | 4G LTE WIFI | FAST ROAMING | BLUETOOTH VER 5 BLE |
| NFC | IMAGER | 2xSAM 1xSIM | IP67 1.5m (5ft) | PULS SERVICE | EMKIT SUPPORT | AGPS GLONASS | 2,900mAh 5,800mAh | 13MP REAR 5MP FRONT |

# PM90

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## PERFORMANCE CHARACTERISTICS

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

### Operating System
| | |
|---|---|
| Google Android (GMS certified) | Android 9.0 (upgradable to newer version) 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) - PEAP (MSCHAPv2, GTC), TLS, TTLS (PAP, MSCHAP, MSCHAPv2, GTC) PWD, SIM, AKA, AKA', LEAP |
| Fast Roam | CCKM, 802.11r |

### Wireless PAN
| | |
|---|---|
| Bluetooth | Integrated Bluetooth Class I, Ver. 5.0 BLE support |

## DATA CAPTURE

### NFC (Near Field Communcation)
| | |
|---|---|
| NFC-Forum (NFC-IP MODES) | Reader For NFC Forum (Tag Types 1 To 5), 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

EmKit

| | |
|---|---|
| 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.

PULS
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.

For the further inquiry, please contact:
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