POINT Mobile

# PM86

## EMPOWER YOUR BUSINESS WITH WI-FI 6–FEATURED IN THE TRULY RUGGED MOBILE COMPUTER

### Enhanced performance for heavy business solutions

Maintaining a similar look to its popular predecessor PM85, the PM86 comes with upgraded internals for smoother operations. Powered by a 2.0 GHz octa-core Qualcomm processor and 4 GB/64 GB memory, PM86 runs the latest, intensive solutions on Android 11 smoothly. The 4,080 mAh battery ensures all-day operation, while businesses can choose a 5,800 mAh extended battery for more intensive operation. The dual front-facing speaker invites you to clear communication even in a noisy work environment. The three 1D/2D scan engines have been tested, tuned, and optimized to work seamlessly with PM86 and capture data fast and accurately.

### High-speed yet reliable wireless connection

Wi-Fi 6 technology empowers your workforce with faster, more secure, and more reliable data transfer. The 2x2 MU-MIMO significantly enhances each access point within the workplace. Optional LTE allows your employees to remain connected and go anywhere they need to.

### Purpose-built features for the enterprise environment

Through a meticulous designing and testing process, the PM86 has been refined to deliver an exceptional user experience. The back cover and the battery now comprise one integrated part, contributing to increased safety and robustness, and offering a simpler on-the-spot replacement process. The BLE Beacon transmits signals for up to 20 days after the device is switched off and even without the main battery, simplifying device management. Enterprise Hot-Swap keeps the screen on during battery replacement and activates the countdown timer for a shutdown.

### Efficiency through backward compatibility and lasting durability

PM86's backward compatibility with PM85 charging cradles* minimizes the cost, while you can still choose a new and improved set of optional accessories including different types of charging cradles, a gun handle with a scan trigger, and a brand-new UHF RFID reader. It is a truly rugged device that withstands multiple drops from 2.0 m (6.6 ft.) to the concrete floor with the Rugged Boot and 1.5 m (5.0 ft.) without, and has IP67 and IP65 rating dust and water resistance, further decreasing the overall downtime and the cost.
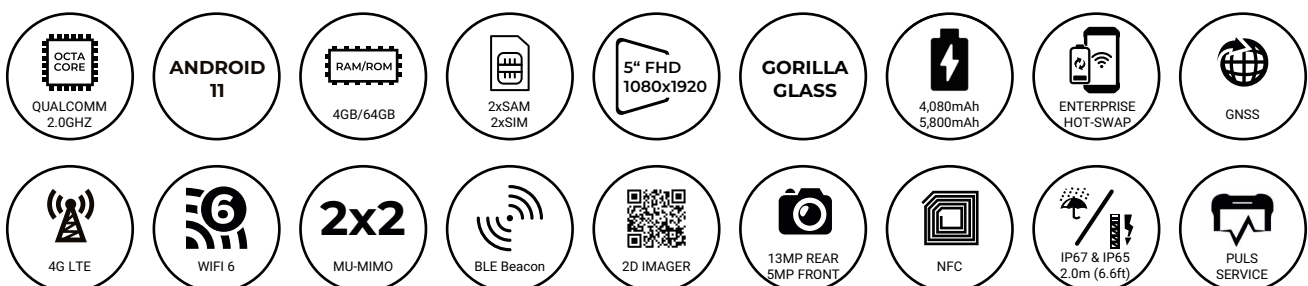
android enterprise recommended

## Industries

- Field Services
- Transport & Logistics
- Warehouse Management
- Retail
- Hospitality

## Accessories

**Standard**
AC/DC Power Adaptor
Country Plug
LCD Protection Film
USB-C cable
Battery
 - Standard: 4,080 mAh
 - Extended: 5,800 mAh
Hand Strap

**Optional**
Single Slot Cradle (opt. Ethernet)
Dual Slot Cradle**
**Connect up to 3 Dual Slot Cradles to charge up to 6 devices at a time
4 Slot Battery Charger
Gun Handle
UHF RFID Reader
Rugged Boot
PM86 is backward compatible with PM85 charging cradles*.
*Except battery bay

OCTA CORE
QUALCOMM 2.0GHZ

ANDROID 11

RAM/ROM
4GB/64GB

2xSAM 2xSIM

5" FHD 1080x1920

GORILLA GLASS

4,080mAh 5,800mAh

ENTERPRISE HOT-SWAP

GNSS

4G LTE

WIFI 6

2x2 MU-MIMO

BLE Beacon

2D IMAGER

13MP REAR 5MP FRONT

NFC

IP67 & IP65 2.0m (6.6ft)

PULS SERVICE

# PM86

## PERFORMANCE CHARACTERISTICS

### Main processor

Qualcomm® octa-core @2.0 GHz

### Operating system

| Google Android (GMS & AOSP) | Android 11 (upgradable to Android 14) FOTA (Firmware Over The Air) update |
|---|---|

### Memory and storage

| RAM/ROM | 4 GB/64 GB (UFS) |
|---|---|
| micro SD | Supports up to 512 GB using ExFAT file system |
| SIM | 2 nano SIM slots |
| SAM (optional) | 2 micro SAM slots |

| Sensor | Proximity sensor, Light ambient sensor, Accelerometer, Gyro sensor, Digital compass, SAR sensor, Barometer sensor |
|---|---|

## PHYSICAL CHARACTERISTICS

### Dimensions

| With STD battery | 157.5 x 78.0 x 19.6 mm 6.2 x 3.1 x 0.8 in. |
|---|---|
| With EXT battery | 157.5 x 78.0 x 24.2 mm 6.2 x 3.1 x 1.0 in. |

### Weight

| With STD battery | 287.1 g/10.1 oz. |
|---|---|
| With EXT battery | 315.1 g/11.1 oz. |

| Display | 5.0" IPS panel (1080 x 1920 pixels), FHD LED backlight Daylight readable (more than 500 nits) Multi-touch capacitive Corning Gorilla Glass |
|---|---|

### Power

| Standard battery | 3.8 V, 4,080 mAh Li-ion rechargeable |
|---|---|
| Extended battery | 3.85 V, 5,800 mAh Li-ion rechargeable |
| Back-up battery | 3.7 V, 60 mAh (10C), Enterprise Hot-Swap |

### Key & buttons

| Right | Volume, scan |
|---|---|
| Left | Power, scan |

| Voice and audio | Two built in microphones (noise-canceling) Dual speaker on front side (output max. 100 dB) Receiver and headset Jack (3.5 mm) Bluetooth headset support PTT support |
|---|---|

| Standard communications | High speed USB 3.0 Type-C POGO 8 pin |
|---|---|

| Notification | 2 x dual LEDs for power and warning indication, vibration, beep |
|---|---|

## GLOBAL NAVIGATION SATELLITE SYSTEM

WiFi SKU: No GNSS
Phone SKU: Qualcomm GNSS
GNSS receiver support for GPS, A-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 | B1/2/3/4/5/7/8/12/13/17/19/20/25/26/28/66 |
| LTE TDD | B38/39/40/41 |

### Wireless LAN

| Radio | IEEE 802.11 a/b/g/n/ac/ax/d/h/i/k/r/v, 2x2 MU-MIMO, CCX v4 |
|---|---|
| Data rates | 5 GHz: 802.11 a/n/ac/ax up to 1200 Mbps 2.4 GHz: 802.11 b/g/n/ax up to 286.8 Mbps |
| Operating channels | 1 to 13 (2412~2472 MHz) 36 to 165 (5180~5825 MHz) |
| Channel bandwidth | 20, 40, 80 MHz |
| Security and encryption | WEP/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 |

### Wireless PAN

| Bluetooth | Bluetooth Class I Ver. 5.0 BLE support Beacon (transmits signals for up to 20 days, power-off and without main battery) |
|---|---|

## DATA CAPTURE

### Integrated scan engine options

N3603, N6703, N6803 FR all support 1D/2D barcode symbologies

### Camera

| Rear | 13 MP with LED flash, F. No. 2.0, Phase Detection Auto Focus (PDAF) |
|---|---|
| Front | 5 MP (optional) |

### NFC (Near Field Communication)

| 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 |

UHF Passive RFID tag integrated for device tracking

## 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 | 2.0 m (6.6 ft.) with Rugged Boot and 1.5 m (5 ft.) without, multiple drops to concrete across operating temperature range, MIL-STD-810H |
|---|---|
| | 1.8 m (6 ft.) multiple drops to concrete at room temperature, MIL-STD-810H |

| Tumble | 1,000 cycles, 1 m (3.3 ft.) tumbles per IEC 60068-2-31 specification |
|---|---|

| Rain/dust proof (Sealing) | IP67 and IP65 |
|---|---|

| Electrostatic discharge | ± 15 kV air discharge ± 8 kV contact discharge |
|---|---|

## REGULATORY APPROVALS AND COMPLIANCE

RCM, CE/CB, WPC, BIS, KC, IC, FCC, NRCan, UKCA, NBTC, IFITEL, NOM, CU, FAC, EAC RoHS, FSS, RoHS, WEEE, REACH

## ENTERPRISE SOLUTION

**PMDM**
Simple yet powerful management solution

PMDM is a mobile device management solution for managing and monitoring your Point Mobile Android devices.

Centralized management of enterprise devices is vital for better productivity. You should provide a device configuration that the workers can concentrate on their work with the device, and also decrease the device downtime by predicting when to replace the battery, etc.

**EmKit**
Enterprise Mobility Kit

The EmKit™ is Point Mobile's value-added service kit engineered for the pure benefit of system integrators. EmKit supports the utilization, solution development, and secure management of your business devices.

## PULS – ANDROID UPDATE & SECURITY

PULS is a 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 yoru 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, PM86 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