

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 or 13 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.



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

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PM86

PERFORMANCE CHARACTERISTICS

Main processor

Qualcomm® octa-core @2.0 GHz

Operating system

Google Android (GMS & AOSP) Android 11 / 13 (upgradable to Android 14)*
FOTA (Firmware Over The Air) Update

Memory and storage

RAM / FLASH 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),
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, IFTEL, 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 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, PM86 carries 1 (one) year-warranty period from the date of purchase against the defective materials and manufacturing defects.

*The Android version may vary based on the mobile processor product roadmap. The upgradeable version is subject to change on the manufacturer's policy and condition.
**MOQ applies: Please contact sales representatives for more information.

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