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 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 1.8 m (6 ft.) to the concrete floor at room temperature 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

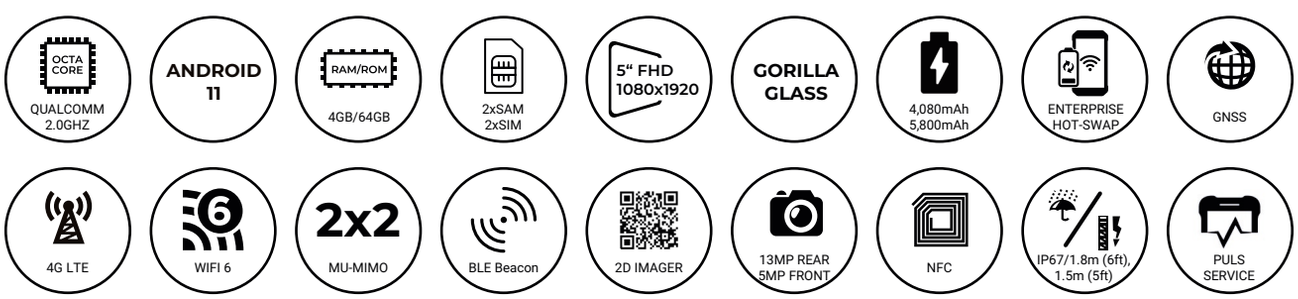
Standard
- AC/DC Power Adaptor
- Country Plug
- LCD Protection Film
- USB-C cable
- Standard Battery (4,080 mAh)
- Hand Strap

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
- Extended Battery (5,800 mAh)
- PM86 is backward compatible with PM85 charging cradles*.

*Except battery bay



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 512GB 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 78.80 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 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

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	1.8 m (6 ft.) multiple drops to concrete, at room temperature, MIL-STD-810H 1.5 m (5 ft.) multiple drops to concrete, across operating temperature range, 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. EmKitTM 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

Corporate Headquarters
Point Mobile Co., Ltd.
pm_sales1@pointmobile.com
+82 2 3397 7870

NA Headquarters
Point Mobile Americas LLC
info@pointmobileamericas.com
+1 425 780 4452

Europe Headquarters
Point Mobile Europe GmbH
info.pmeg@pointmobile.com
+49 211 1588 5913

China Headquarters
Point Mobile China
info@pointmobile.com.cn
+86 755 8869 1169

For more information, visit www.pointmobile.com

Google, Android, Google Play and other marks are trademarks of Google LLC.
Copyright © 2006-2023 Point Mobile Co., Ltd. All rights reserved. Point Mobile Co., Ltd. is the designer and manufacturer of handheld mobile computers.
The Point Mobile logo is a registered trademark and symbol of Point Mobile. Features and specifications are subject to change without prior notice.