ACVENTIS
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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
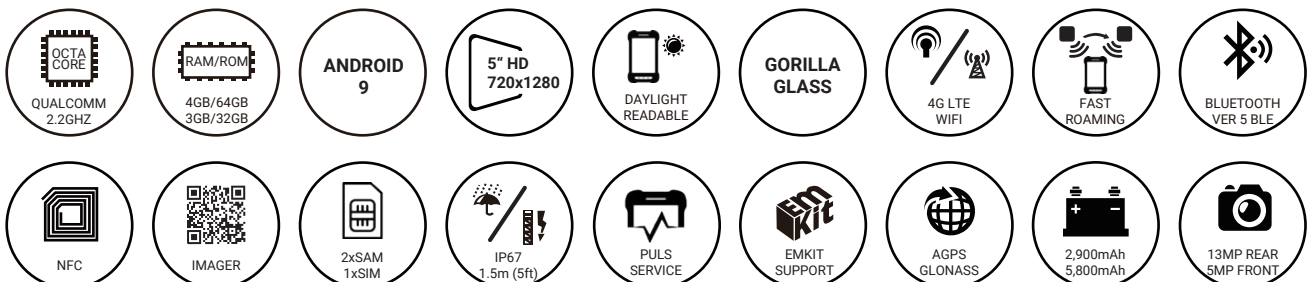Public Sector
Transport & Logistics
Hospitality

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
Stylus Pen and Tether
Gun Handle

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

POINT MOBILE DATA SHEET
PM90-DS08-EN

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.co.kr 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:
service@pointmobile.co.kr