POINT Mobile

PM452

NEXT GENERATION HANDHELD TERMINAL
FOR THE STATE-OF-THE-ART SCANNING PERFORMANCE

Fine-Tuned for Maximum Data Capture Efficiency

Introducing the PM452, a powerhouse in handheld terminal technology, meticulously engineered to deliver unparalleled scanning performance in any environment. With powerful scan engine options, including an extra-long-range and a flexible range scanner with dynamic reading capabilities, the PM452 provides fast and accurate reading of various symbologies. With a robust 2.2 GHz processor and ample 6 GB RAM / 128 GB flash memory, the device excels in processing data and decoding symbologies quickly, even in challenging conditions such as low lighting or damaged barcodes.The 13 MP camera on top of the device, equipped with PDAF (Phase Detection Auto Focus) technology, captures clear images in a split second.

Enhanced Connectivity for Seamless Operations

The PM452 sets new standards in connectivity and efficiency with Wi-Fi 6E, enhancing data security, preserving battery life, and ensuring swift data transmission. Its advanced network capacity empowers businesses to effortlessly manage larger datasets, catalyzing productivity growth. With the LTE option, workers can utilize the device seamlessly throughout the entire supply chain, leading to uninterrupted operations. The optional 5,700 mAh extended battery gives users enough power to stay connected and productive all day, wherever they are.

Choose Your Ideal Device

Choose from a standard range 1D/2D imager or opt for the extra-long-range one that boasts an incredible reading distance of up to 29 m when reading certain types of symbologies. Tailor your PM452 further with three keypad options: numeric, function numeric, or alphanumeric. To enhance efficiency further, consider the optional ergonomically designed, detachable Gun Handle which boosts productivity in your workforce.

Pragmatic Device for Any Size of Business

PM452 is well-equipped with the latest technologies, including Android 13, advanced scan engines, and Wi-Fi 6E, while remaining as a pragmatic choice for businesses of all sizes. Its exceptional durability keeps maintenance simple and downtime low. With IP65 water/dust resistance, a 2.0 m (6.6 ft.) drop resistance to concrete at room temperature, and an operating temperature ranging from -20 °C to 60 °C (-4 °F to 140 °F), the PM452 is well protected and suitable for any type of work setting.
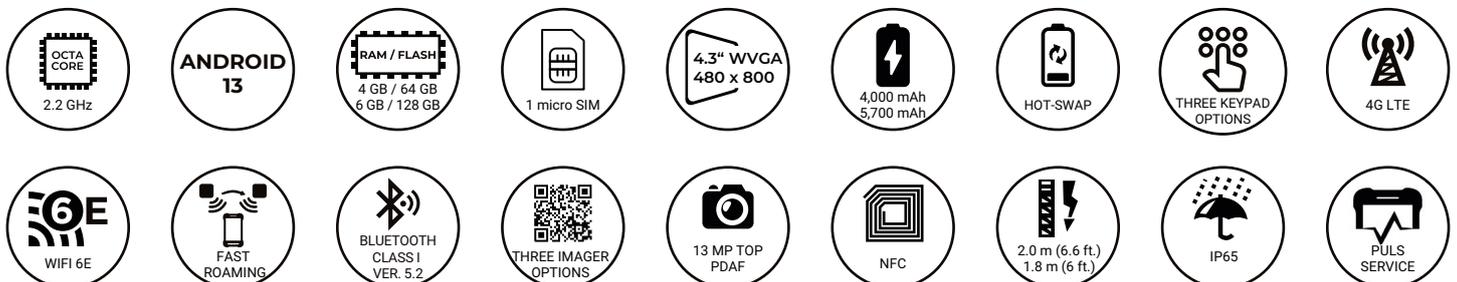
Industries

Transport & Logistics
Manufacturing
Warehouse Management

Accessories

Standard
AC/DC Power Adaptor
Country Plug
LCD Protection Film
USB-C Cable
Battery
  - Standard: 4,000 mAh
  - Extended: 5,700 mAh
Stylus
Wristband

Optional
Single Slot Cradle (opt. Ethernet)
4 Slot Cradle
4 Slot Battery Charger
Gun Trigger

| OCTA CORE 2.2 GHz | ANDROID 13 | RAM / FLASH 4 GB / 64 GB 6 GB / 128 GB | 1 micro SIM | 4.3" WVGA 480 x 800 | 4,000 mAh 5,700 mAh | HOT-SWAP | THREE KEYPAD OPTIONS | 4G LTE |

| WIFI 6E | FAST ROAMING | BLUETOOTH CLASS I VER. 5.2 | THREE IMAGER OPTIONS | 13 MP TOP PDAF | NFC | 2.0 m (6.6 ft.) 1.8 m (6 ft.) | IP65 | PULS SERVICE |

PM452

PERFORMANCE CHARACTERISTICS

Main processor

Octa-core @ 2.2 GHz

Operating system

Google Android (GMS & AOSP)	Android 13 (upgradable to Android 18)* FOTA (Firmware Over The Air) update

Memory and storage

RAM / Flash	4 GB / 64 GB or 6 GB / 128 GB
micro SD	Supports up to 512 GB using ExFAT file system
SIM	1 micro SIM

Sensor	Proximity sensor, Light ambient sensor, Accelerometer, Gyro sensor

PHYSICAL CHARACTERISTICS

Dimensions	214.9 x 77.3 x 39.3 mm 7.5 x 3.0 x 1.6 in.

Weight	450 g / 15.9 oz.

Display	4.3", IPS panel (480 x 800 pixel), WVGA LED backlight Daylight readable (min 500 nits) Wideviewing angle Multi-touch capacitive Corning Gorilla glass

Power

Standard battery	4,000 mAh, 3.7 V, Li-ion rechargeable
Extended battery	5,700 mAh, 3.7 V, Li-ion rechargeable
Back-up battery	60 mAh, 3.7 V (10C), Hot-Swap

Keypad

Three options	Numeric, Function Numeric, Alpha numeric

Voice & Audio	Built-in microphone Dual speakers

Standard communications	USB 2.0 Type-C/OTG POGO 7 pin

Notification	2 x Dual LEDs for power (R/G) and warning (R/B) indication Vibration

GLOBAL NAVIGATION SATELLITE SYSTEM

WLAN SKU: No GNSS
WWAN SKU: GNSS receiver support for GPS (A-GPS), GLONASS, Galileo, and Beidou

WIRELESS

Wireless WAN

EDGE/GPRS/GSM	900/1800/850/1900
WCDMA	B1/2/5/6/8/19
LTE FDD	B1/2/3/4/5/7/8/12/13/19/20/25/26/28
LTE TDD	B38/40/41

Wireless LAN

Radio	IEEE 802.11 a/b/g/n/ac/ax/d/h/i/k/r/v, Wi-Fi 6E, Wi-Fi Direct and Hot Spot support
Data rates	6 GHz: 802.11 a/n/ac/ax, up to 1201 Mbps 5 GHz: 802.11 a/n/ac/ax, up to 1201 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) 1 to 233 (5935~7115 MHz)
Channel bandwidth	20, 40, 80, 160 MHz MHz
Security and encryption	WEP / WPA / WPA2 / WEP, RC4 Algorithm / TKIP, RC4 Algorithm / AES, Rijndael Algorithm, EAP-FAST / EAP-TLS / EAP-TTLS / PEAP-GTC / PEAP-MSCHAPv2 / WPA3 Personal / WPA3 Enterpriase / Enhanced Open (OWE)
Fast Roam	802.11r

Wireless PAN

Bluetooth	Class I, ver. 5.2, BLE support

DATA CAPTURE

Integrated scan engines

Three 1D/2D scan engine options including flexible range and extra-long range

Camera

Top	13 MP, F. No. 2.0, PDAF (Phase Detection Auto Focus), LED flash

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	-40 °C to 70 °C -40 °F to 158 °F
Humidity	95% non-condensing

Drop	2.0 m (6.6 ft.) multiple drops to concrete surface at room temperature 1.8 m (6 ft.) across the operating temperature range, MIL-STD-810H
Tumble	1,000 cycles, 1.0 m (3.3 ft.) tumbles per IEC 60068-2-31 specification
Rain/dust proof (Sealing)	IP65
Electrostatic discharge	± 15 kV air discharge ± 8 kV contact discharge

REGULATORY APPROVALS AND COMPLIANCE

CB, CE, RoHS, WEEE, FCC, IC, RCM, KC

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 security updates for up to 7 year
Conveniently update your devices in the field by FOTA
Update Android Versions** and use new features via PULS

For further information, please visit www.pointmobile.com or contact your regional sales representative.

WARRANTY

Subject to the Terms and Conditions, PM452 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

*   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.

** Android version updates may come with restrictions and could incur charges.

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