

# 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 & IP67 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.



Android  
Enterprise  
Recommended



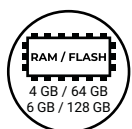
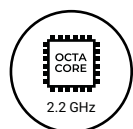
### Industries

Transport & Logistics  
Manufacturing  
Warehouse Management

### Accessories

**Standard**  
AC/DC Power Adaptor  
Country Plug  
LCD Protection Film  
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



# 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  
8.5 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 (max. 500+ nits)  
Widewiewing angle  
Multi-touch capacitive  
Corning Gorilla glass

### Power

Standard battery 4,000 mAh, 3.7 V, Li-ion rechargeable  
Extended battery 5,700 mAh, 3.63 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

LED on top: power (R/G), warning (R/B)  
LED on side: scan status (R/B)  
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 B1/2/4/5/6/8/19  
LTE FDD B1/2/3/4/5/7/8/12/13/17/19/20/25/26/28  
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,  
1x1 MU-MIMO

**Data rates** 6 GHz: 802.11 ax: Up to 867 Mbps  
5 GHz: 802.11 a/n/ac/ax: Up to 867 Mbps  
2.4 GHz: 802.11 b/g/n/ax: Up to 143 Mbps

**Operating channels** 1 to 13 (2412~2472 MHz)  
36 to 165 (5180~5825 MHz)  
1 to 233 (5955~7115 MHz)

**Channel bandwidth** 20, 40, 80, 160 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 Enterprise / 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 Reader for NFC Forum (Tag Types 1 to 5)  
(NFC-IP Modes)  
Reader ISO/IEC 14443 A, ISO/IEC 14443 B, ISO/IEC  
(PCD – VCD) 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 (2,000 hits), 1.0 m (3.3 ft.)  
per IEC 60068-2-31 specification


**Rain/dust proof (sealing)** IP65 & IP67

**Electrostatic discharge** ± 15 kV air discharge  
± 8 kV contact discharge

## REGULATORY APPROVALS AND COMPLIANCE

CB, CE, RoHS, WEEE, FCC, IC, RCM, KC, NRCAN, BIS, WPC, IMDA,  
NBTC, CITC, SIG

## 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](http://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 leave your message here:  
<https://pointmobile.com/en/contact/inquiry.php>

\* The Android version may vary based on the mobile processor product roadmap.  
The upgradable 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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