

# MF52

## Ultra Sleek, Ultimate Performance

### Built for the Pace of Modern Retail

From the sales floor to the stockroom, the MF52 keeps your business moving. Say goodbye to slow devices and storage limitations. With a lightning-fast Qualcomm octa-core processor (2.9GHz), up to 12GB of RAM, and 256GB of UFS storage, the MF52 delivers seamless, reliable performance—no matter how demanding the task. Wi-Fi 7 keeps you connected in busy workspaces, and 5G ensures you're always online on the go, while UWB, Bluetooth 6, and built-in beacon technology work together to provide pinpoint location tracking and seamless peripheral pairing. To secure all these fast-paced operations, an integrated fingerprint sensor provides instant access while keeping your critical business data strictly protected.

### Do More with One Device

Why carry multiple tools when one does it all? The MF52 combines RFID, 2D barcode scanning, NFC payments, and a high-resolution 50MP camera—all in one compact, powerful package. From inventory checks to customer interactions, it's everything you need at your fingertips. With its slim 12mm profile and ergonomic design, the MF52 fits comfortably in your hand and slips easily into your pocket—true mobility, redefined.

### Power that Lasts as Long as Your Day

Long shifts? No problem. The MF52's massive 7,000mAh removable extended battery keeps you powered through even the busiest days, with 7 to 9 hours of continuous scanning. Hot-swap capability means you never need to power down to recharge. And with PD 3.0 fast charging, you're back to 90% in under 90 minutes—less downtime, more done.

### Tough Enough for Real Work

Built to thrive in the real world, the MF52 is as durable as it is sleek. It's MIL-STD-810 certified to survive 1.5m drops and 500 tumbles, while strengthened glass shields the screen from scratches and impacts. IP68 sealing keeps dust and water out, so whether you're on the shop floor or out in the field, the MF52 is ready for whatever your day brings.



#### Basic Package

- 1 x Terminal
- 1 x Power Adaptor
- 1 x USB Type-C Cable
- 1 x Power Plugs
- 1 x LCD Protective Film

#### Accessories (Optional)

- Rugged Boot
- Single-slot Charging Cradle
- 5-slot Charging Cradle
- 4-slot Battery Charger
- Gun Trigger
- Hand Belt



Octa-core  
2.9 GHz



RAM  
8 GB or 12 GB



ROM  
128 GB or 256 GB



Android 15  
(upgradable to 19)



Embedded  
RFID Reader



4,670 mAh  
7,000 mAh



Ultra-slim 2D  
Scan Engine



266.5 g



6.0" FHD+ Display  
(1,080 x 2,160)



GNSS



1.5 m (5 ft.)  
multiple drops



IP68



-20 °C to 60 °C



Rear 50 MP  
Front 8 MP



Bluetooth  
v6.0



NFC  
Apple VAS Support



5G / Wi-Fi 7



PULS  
Service

## PERFORMANCE CHARACTERISTICS

### Main Processor

Qualcomm QCM6690, Octa-core @ 2.9 GHz

### Operating System

Google Android Android 15 (upgradable to Android 19)\*  
(GMS & AOSP)

### Memory and Storage

RAM 8 GB or 12GB  
Flash 128 GB or 256 GB UFS  
micro SD Supports up to 1 TB using ExFAT file system  
SIM 1 nano SIM and eSIM

### Sensor

Proximity sensor  
Light ambient sensor  
Accelerometer  
Gyro sensor  
Digital compass  
Finger print sensor

## PHYSICAL CHARACTERISTICS

**Dimensions** 168 x 79 x 16.45 mm  
6.6 x 3.1 x 0.64 in

**Weight** 266.5 g (9.4 oz)

**Display** 6.0" FHD+ display (1,080 x 2,160 pixels)  
LED backlight  
Corning Gorilla glass 7  
600 nits typical  
Daylight readable

### Power

**Standard Battery** 4,670 mAh typical, 3.8 V  
(Li-ion Rechargeable, removable pack with locker)  
**Extended Battery** 7,000 mAh typical, 3.8 V  
(Li-ion Rechargeable, removable pack with locker)  
**Back-up Battery** 60 mAh, 3.7 V (10C), Hot-Swap  
**DC output** PD3.0, 20W  
(Charging upto 90% from 0% within 90 mins)

### Keys and Buttons

**Right** Scan/PTT, Fingerprint  
**Left** Scan, Volume  
**Top-right** Power  
**Top-left** Emergency

### Voice and Audio

Dual microphones  
Receiver  
3W Speaker (100±3 dB)

**Standard Communications** USB 3.1 Type-C port  
POGO 5 pin (rear)  
POGO 2 pin (bottom)

**Notification** 2 x dual LEDs on front: power (R/G),  
warning (R/B)  
Vibration

## GLOBAL NAVIGATION SATELLITE SYSTEM

**WiFi SKU** No GNSS  
**Phone SKU** Qualcomm GNSS  
A-GPS supports XTRA (GPS, GAL,  
GLONASS, Beidou, QZSS)

**Dual-Band GNSS** L1/G1/E1/B1 (GPS, GLO, GAL, BeiDou,  
QZSS) + L5/E5a/BDSB2a (GPS, GAL,  
BeiDou, QZSS)

## WIRELESS

### Wireless WAN

**5G** NR Sub6 NSA and SA n1/2/3/5/7/8/12/13/  
14/20/25/26/28/29/38/40/41/48/66/71/7  
7/78/79 Sub-6 CA, FDD+FDD, FDD+TDD  
2CA, DL MIMO 4x4, n1/2/3/7/25/38/40/41/  
48/66/77/78/79, UL 2x2 MIMO n77/78/79

**4G LTE** B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25  
/26/28/29/38/39/40/41/42/43/48/66/  
68/71, DL MIMO 4x4, B1/2/3/4/7/25/38/4  
0/41/42/43/48/66, Support 4CA, Korea PS  
(Public Safety) LTE B28

**3G** B1/2/4/5/6/8/19

### Wireless LAN

**Radio** 802.11 a/b/g/n/ac/ax/be (Wi-Fi 7)  
802.11d/h/i/k/r/v  
MIMO 2x2

**Security and Encryption** WEP / WPA / WPA2 / WPA3 / WEP, RC4  
Algorithm / TKIP, RC4 Algorithm / AES,  
Rijndael Algorithm / EAP-TLS / EAP-TTLS /  
PEAP-GTC / PEAP-MSCHAPv2 / PEAP-TLS  
/WiFi Direct and Hot-spot support  
DBS, MLO

### Wireless PAN

**Bluetooth** Bluetooth 6 and Class 1  
(Class 2 Selectable by SW)  
BLE, UWB Supported

## DATA CAPTURE

**Integrated Scan Engines** S0703

### Camera

**Rear** 50 MP, Auto focus, EIS, F. No 1.8  
Support the binning function for low-light  
environments  
**Front** 8 MP

### NFC (Near Field Communication)

**NFC-Forum (NFC-IP Modes)** Reader for NFC Forum (Tag Types 2 to 5)  
**Reader (PCD - VCD)** - ISO/IEC 14443 A / 14443 B / 15693  
- MIFARE Classic 1K / 4K / DESFire  
- MIFARE UltraLight  
- Sony FeliCa  
- Apple: ECP1.0 & ECP2.0 polling support  
VAS supported

### RFID Reader

**Embedded RFID** Short Range UHF RFID  
Read Rate : 50 tags /sec  
Read Range : ~ Upto 1.0 m

## 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** 1.5 m (5 ft.) multiple drops to concrete  
surface across the operating temperature  
range, MIL-STD 810H

**Mini Drop** 10,000 cycle at 20 cm

**Tumble** 500 cycles (1,000 hits), 1.0 m (3.3 ft.)  
meeting and exceeding the IEC 60068-2-  
31 specification

**Rain/Dust-proof (Sealing)** IP68

**Electrostatic Discharge** ± 15 kV Air Discharge  
± 8 kV Contact Discharge

## 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 years  
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, MF52 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.

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