

MF52

Ultra Sleek, Ultimate Performance

AI-Ready: Unrivaled On-Device AI Performance

Driven by the powerful 2.9 GHz Qualcomm® QCM6690 AI chipset, MF52 sets a new standard for smart industrial environments. The chipset's 6 TOPS AI engine enables lightning-fast on-device processing—bypassing cloud latency for maximum speed and security. From real-time AI OCR to intelligent voice recognition, that engine handles the most demanding AI workloads with seamless, heavy-duty performance, empowering your workforce in the AI era.

Built for the Pace of Modern Retail

Say goodbye to slow devices and storage limitations. With up to 8 GB of RAM and 128 GB of UFS storage, MF52 delivers smooth, reliable performance even for demanding tasks. Wi-Fi 7 and 5G keep users connected both indoors and on the move, while UWB, Bluetooth 6, and built-in beacon technology enable accurate location tracking and seamless peripheral pairing. An integrated fingerprint sensor adds fast, secure access to help protect critical business data.

Do More with One Device

Why carry multiple tools when one does it all? MF52 combines RFID, 2D barcode scanning, NFC payments, and a high-resolution 50 MP camera—all in one compact, powerful package. From inventory checks to customer interactions, it's everything you need at your fingertips. With its slim 12.7 mm profile and ergonomic design, 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. MF52's 4,670 / 7,000 mAh hot-swappable battery keeps you powered through even the busiest days. 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 (Standard Battery SKU)—less downtime, more done.

Tough Enough for Real Work

Built to thrive in the real world, MF52 is as durable as it is sleek. It's MIL-STD-810H certified to survive 1.8 m (6 ft.) drops with a rubber boot and 500 tumbles, while strengthened glass shields the screen from scratches and impacts. IP68 and IP65 sealing keeps dust and water out, so whether you're on the shop floor or out in the field, 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 Standard Battery
- 1 x Power Plug
- 1 x LCD Protective Film
- 1 x Hand Strap

Accessories (Optional)

- Rubber Boot
- Single Slot Cradle
- Single Slot Ethernet Cradle
- 4-Slot Battery Charger
- 5-Slot Cradle
- Multi-Slot Cradle
- Gun Trigger



Octa-core
2.9 GHz



RAM
8 GB



Storage
128 GB



Android 15
(Upgradable to 19)



Embedded
RFID Reader



4,670 mAh
7,000 mAh



Honeywell
S0703



12.7 mm (0.5 in)
269.5 g (9.51 oz)



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



GNSS



1.5 m (5 ft.)
multiple drops



IP68
IP65



-20 °C to 60 °C
(-4 °F to 140 °F)



Rear 50 MP
Front 8 MP



Bluetooth
6.0



NFC
Apple VAS Support



5G / Wi-Fi 7



PULS
Service



MF52

PERFORMANCE CHARACTERISTICS

Main Processor	
Qualcomm QCM6690, Octa-core @ 2.9 GHz	
Operating System	
Google Android (GMS & AOSP)	Android 15 (Upgradable to Android 19)*
Memory and Storage	
RAM	8 GB LPDDR5x
Flash	128 GB UFS
micro SD	Supports up to 1 TB using ExFAT file system
SIM	1 nano SIM and eSIM
Sensors	
Proximity Sensor Light Ambient Sensor Accelerometer Gyro Sensor Digital Compass Fingerprint Sensor	

PHYSICAL CHARACTERISTICS

Dimensions	168.03 x 79 x 12.7 mm 6.61 x 3.11 x 0.5 in
Weight	With Standard Battery: 269.5 g (9.51 oz) With Extended Battery: 308.5 g (10.88 oz)
Display	6.0" FHD+ Display (1,080 x 2,160 px), IPS LED Backlight Min. 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 DC output	60 mAh, 3.7 V (10 C), Hot-Swap PD 3.0, 20 W Charging upto 90% from 0% within 90 mins (STD. Battery) / 140 mins (EXT. Battery)
Keys and Buttons	
Right	Scan/PTT, Fingerprint
Left	Scan, Volume
Top-right	Power
Top-left	Emergency
Voice and Audio	
Dual Microphones (Echo Cancellation, Noise Suppression, Wind Noise Mitigation) Receiver (T3/M3 HAC-compliant) 3 W Speaker (100±3 dB) Supports Smart PA SPK 1.5 W X 2	
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
Cellular 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/BD5B2a (GPS, GAL, BeiDou, QZSS)
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WIRELESS

Wireless WAN	
5G	NR Sub6 NSA and SA n1/2/3/5/7/8/12/13/14/20/25/26/28/29/38/40/41/48/66/71/77/78/79 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, B1/2/3/4/7/25/38/40/41/42/43/48/66, Support 4CA Korea PS (Public Safety) LTE B28 (KR SKU)
3G	B1
Wireless LAN	
Radio	802.11 a/b/g/n/ac/ax/be 802.11d/h/i/k/r/v/w/mc
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
Feature	WiFi Direct and Hot-spot Support, WiFi 7, MIMO 2x2, HBS, MLO
Wireless PAN	
Bluetooth	Bluetooth 6 and Class 1 (Class 2 Selectable by SW) Supports BLE, BLE Beacon
UWB	Supports Ultra-Wideband

DATA CAPTURE

Integrated Scan Engines	S0703
Camera	
Rear	50 MP with 1 LED Flash , 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 Supports VAS

RFID Reader	
Embedded RFID	Short Range UHF RFID Read Rate : 50 tags /sec Read Range : ~ Up to 1.0 m (3.28 ft.)

USER ENVIRONMENT

Operating Temperature	-20 °C to 60 °C -4 °F to 140 °F
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Storage Temperature	-40 °C to 70 °C -40 °F to 158 °F
Humidity	95% Non-condensing
Drop	≥1.8 m (6 ft.) with Rubber Boot 1.5 m (5 ft.) without Rubber Boot multiple drops to concrete surface across the operating temperature range, MIL-STD-810H
Mini Drop	10,000 cycle at 20 cm (7.87 in)
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, IP65 IEC 60529:1989/AMD2:2013/COR1:2019
Salt Fog Test	Compliant with KS D 9502 (96 hours)

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 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 upgradeable version is subject to change on the manufacturer's policy and condition.

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