

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 (5.9 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

PERFORMANCE CHARACTERISTICS

Main Processor

Qualcomm QCM6690, Octa-core @ 2.9 GHz

Operating System

Google Android 19)*(GMS) Android 15 (Upgradable to Android 19)

Memory and Storage

RAM 8 GB LPDDR5x
Flash 128 GB UFS 2.2
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
6.62 x 3.11 x 0.50 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 60 mAh (10 C), Hot-Swap
DC output 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/BDSB2a (GPS, GAL, BeiDou, QZSS)

WIRELESS

Wireless WAN

5G NR Sub6 NSA and SA n1/2/3/5/7/8/12/13
/14/20/25/26/28/29/38/40/41/48/66/71/77/78/79, Sub-6 CA,
FDD+FDD, FDD+TDD 2CA, DL MIMO 4x4, n1/2/3/7/25/38/40/4
1/48/66/77/78/79, 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 B1/2/4/5/6/8/19

Wireless LAN

Radio 802.11 a/b/g/n/ac/ax/be
802.11d/h/i/k/r/v/w/mc
Security and 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 Honeywell S0703

Camera

Rear Rear camera: 50 MP autofocus with f/1.8
aperture, LED flash, EIS, and low-light pixel
binning
Front Front camera: 8 MP

NFC (Near Field Communication)

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

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

Storage Temperature -40 °C to 70 °C
-40 °F to 158 °F

Humidity 5% to 95% Non-condensing

Drop Exceeds MIL-STD-810H:
Multiple 1.5 m (5 ft.) to concrete at
operating temperature
Multiple ≥1.8 m (6 ft.) to concrete at room
temperature (With Rugged Boot)

Mini Drop 10,000 cycle

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

Rain/Dust-proof IP68, IP65
(Sealing) IEC 60529:1989/AMD2:2013/COR1:2019

Salt Fog Test Compliant with KS D 9502 (96 hours)

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 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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