

MF52

MF52: Power. Performance. Possibility.

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 16GB of RAM, and 128GB of UFS storage, the MF52 delivers seamless, reliable performance—no matter how demanding the task. Wi-Fi 7 keeps you connected in crowded stores or busy hospitals, while 5G ensures you're always online, even on the go.

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 life.

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 Gorilla Glass 7 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.



MF52 — The ultimate tool for retail, healthcare, logistics, and beyond. Work smarter. Move faster. Stay connected.



Octa-core
2.9 GHz



RAM
8 GB or 16 GB



ROM
128 GB UFS



Android 15
(upgradable to 18)



Embedded
RFID Reader



4,670 mAh
7,000 mAh



Ultra-slim 2D
Scan Engine



220 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



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 or 16GB
Flash	128 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 78 x 12.7 mm 6.6 x 3.0 x 0.5 in.	
Weight	
220 g	
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)	
L1/G1/E1/B1 (GPS, GLO, GAL, BeiDou, QZSS) + L5/E5a/BDSB2a (GPS, GAL, BeiDou, QZSS)	
Dual-Band GNSS	

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	B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/38/39/40/41/42/43/48/66/71 DL MIMO 4x4, B1/2/3/4/7/25/38/40/41/42/43/48/66 Support 4CA
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 / Wi-Fi Direct and Hot spot support DBS, MLO
Wireless PAN	
Bluetooth	V6.0 Bluetooth and Class 1 (Class 2 selectable by SW) BLE support

DATA CAPTURE

Integrated scan engines	
Ultra-slim 2D scan engine	
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 50 tags /sec (coverage 1m)

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	1.8 m (6 ft.) multiple drops to concrete surface across the operating temperature range, MIL-STD 810H
Mini drop	10,000 cycle at 20cm
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

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