HANDHELD MOBILE COMPUTER · 5G

HH51NFC

5G Rugged Android 14 Handheld · Barcode & NFC



The **HH51NFC** is a flagship 5G rugged handheld that pairs an octa-core 4nm processor with fast barcode capture and built-in **NFC** — purpose-built for high-tempo enterprise data collection in retail, logistics and healthcare.

A vivid 6-inch HD display, 5G + Wi-Fi 6E connectivity and an IP67 rugged body make it a future-ready workhorse — with optional UHF RFID when you need it.

5G	6"	5000	IP67
+ WI-FI 6E	1440 × 720 DISPLAY	MAH HOT-SWAP	RUGGED · 1.5 M DROP

KEY FEATURES

Fast barcode capture
Zebra SE4710 / SE55 / CM60 engines read all major 1D & 2D symbologies.

Built-in NFC
13.56 MHz ISO 14443A/B & 15693 for tap-to-read cards, tags and pairing.

5G + Wi-Fi 6E
Global 5G bands, tri-band Wi-Fi 6E with 2×2 MIMO and Bluetooth 5.2.

Rugged Android 14
IP67 sealing, 1.5 m drop, octa-core 4nm CPU — upgradable to Android 18+.

TECHNICAL SPECIFICATIONS

Full Datasheet

PLATFORM

OS	Android 14 (upgradable to 18+)
CPU	Qualcomm octa-core 2.4 GHz (4nm)
Memory	UFS 4 GB + 64 GB / 8 GB + 256 GB (opt.)
Expansion	microSD up to 256 GB (512 GB extreme)
SDK	Manufacturer SDK · Java · Android Studio

SCANNING & NFC

2D scan engine	Zebra SE4710 / SE55 / CM60 (optional)
Symbologies	All major 1D & 2D (QR, DataMatrix, PDF417, postal...)
NFC	13.56 MHz · ISO 14443A/B, 15693, NFC-IP1/IP2 · 2–4 cm
NFC chips	M1 (S50/S70), CPU card, NFC tags
UHF RFID	Optional built-in module

IMAGING

Rear camera	16 MP autofocus with flash
Front camera	5 MP
Sensors	G-sensor, proximity, light, geomagnetic, gyroscope

COMMUNICATION

WLAN	Wi-Fi 6E tri-band 2.4/5/6 GHz, 2×2 MIMO, fast roaming
WWAN	5G (N1–N79) · 4G / 3G / 2G global bands
Bluetooth	Bluetooth 5.2 · Vo-LTE supported
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo
Card slots	2× SIM (1 shared with TF) · eSIM optional

DISPLAY, BATTERY & PHYSICAL

Display	6" HD 1440 × 720 (18:9), Gorilla Glass, glove/wet touch
Battery	5000 mAh removable · hot-swap · QC3.0 · BMS
Dimensions	161 × 77.8 × 15.5 mm
Weight	297 g (with battery)
Interfaces	USB Type-C (USB 3.1, OTG)
Keypad	Power, 2 scan keys, volume, multifunction

ENVIRONMENT

Sealing	IP67
Drop spec	1.5 m to concrete · MIL-STD-810H
Operating temp.	−20 °C to +50 °C
Humidity	5–95% non-condensing

APPLICATION AREAS

- Retail in-store fulfilment & receiving
- Healthcare bedside & specimen tracking
- NFC access & identity verification
- Warehouse picking & inventory
- Logistics parcel & delivery scanning
- Field service & asset inspection

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End-to-end deployment: consulting, hardware, software, install & support.

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