



JMDU80

8-Inch Rugged Android Tablet with UHF RFID

Android 13 with GMS · Impinj R2000, 10–12 m reads · Zebra SE4710 · IP67 · 10,000 mAh

The JMDU80 is an 8-inch rugged Android tablet with a UHF RFID reader built into the chassis — not bolted on as a sled or a separate accessory. An Impinj R2000 module reads EPC Gen2 tags at 10–12 m, while a Zebra SE4710 2D imager handles barcodes, so one device covers bulk inventory counting and conventional label capture on the same screen. The 800 × 1280 IPS display is tuned for gloves, wet hands and an active or passive stylus, and the whole unit carries an IP67 certificate with 1.2 m drop protection and a –20°C to +60°C operating band. A 10,000 mAh battery is rated for roughly ten hours at 1080p and 50% brightness, with a removable-battery option for shift-based deployments. It is positioned as a CT8X2-class alternative for teams that count, locate and identify stock at distance and then scan a label without switching devices.

Deployment is deliberately open: the tablet runs Google Mobile Services, ships with 4 GB RAM and 64 GB storage as standard (expandable to 12 GB and 256 GB), and includes dual-band Wi-Fi, Bluetooth 5.3, LTE with fallback WCDMA/GSM, and GPS / BeiDou / Galileo / GLONASS positioning. The tablet is read-only for RFID: where a workflow also needs tags written or labels encoded, pair the JMDU80 with a JNXRFID JD240TR or JT240TR encoding printer — the tablet reads, the printer writes.

At a Glance

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| <ul style="list-style-type: none"> • UHF RFID reader built in — Impinj R2000, 10–12 m read range • 8-inch 800 × 1280 IPS, glove / wet-hand / stylus touch • 10,000 mAh, ~10 h runtime · option of removable battery • LTE, dual-band Wi-Fi, Bluetooth 5.3, quad-constellation GNSS | <ul style="list-style-type: none"> • Zebra SE4710 2D imager for barcode capture on the same device • IP67 certificate · 1.2 m drop rating · –20°C to +60°C • Android 13 with GMS · MTK8781 octa-core · up to 12 GB / 256 GB |
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Key Advantages

UHF RFID built in, not added on	An Impinj R2000 module reads tags at 10–12 m from the device itself. No sled, no paired accessory reader, no second battery to manage. An alternative PR9200 module (5–8 m) is available for shorter-range deployments.
RFID and barcode on one screen	A Zebra SE4710 2D imager sits alongside the RFID path, so mixed-tag stock — some items tagged, some labelled — is handled in a single pass without swapping hardware.
Glove-ready 8-inch display	800 × 1280 IPS at 300 nits in a 16:10 portrait format, with multi-point capacitive touch that responds to gloves, wet hands and an active or passive stylus. Optional 1200 × 1920 panels raise brightness to 800 / 1000 nits for outdoor use.
Rated for the floor, not the office	An IP67 certificate, 1.2 m drops to concrete and a –20°C to +60°C operating range. Speakers, earpiece and microphones are all IP67 rated, so the seal is not broken by the audio path.
A shift on one charge	10,000 mAh at 3.8 V, rated ~10 h at 1080p and 50% brightness. A removable-battery option supports hot-swap workflows, and a 12-pin Pogo Pin dock plus 5 V / 3 A DC input cover desk and vehicle charging.
Open Android, real connectivity	Android 13 with GMS, an octa-core MTK8781 (Helio G99) at 2.2 GHz, up to 12 GB RAM and 256 GB storage, dual-band Wi-Fi, Bluetooth 5.3, LTE and quad-constellation GNSS. Standard Android application development, no proprietary SDK in the way.

Applications



Warehouse & Inventory	Cycle counting, stock takes and location checks with UHF RFID bulk reads to 10–12 m, then barcode confirmation on the same unit. The 8-inch display shows a full pick or count list without scrolling.
Asset & Tool Tracking	Bulk-read tagged tools, IT assets, containers and returnable transit items instead of scanning one label at a time — the 800 × 1280 screen shows an entire rack in a single pass.
Manufacturing & Yard	WIP, pallet and container identification at dock and yard level, with barcode capture via the Zebra SE4710 imager and glove / wet-hand touch built for plant and outdoor conditions.
Retail Back-of-House & Field Service	Stockroom counts, goods-in verification and on-site asset audits where a tablet-sized screen is faster than a handheld, and the IP67 / 1.2 m drop rating survives the route between them.

Specifications System

Operating System	Android 13 with GMS
Processor	MediaTek MTK8781 (Helio G99), octa-core, 2.2 GHz
Memory	4 GB standard · optional 8 GB / 12 GB
Storage	64 GB standard · optional 128 GB / 256 GB · microSD to 256 GB
Display	8" IPS LCD, 800 × 1280, 16:10 portrait, 300 nits (optional 1200 × 1920 at 800 / 1000 nits)
Touch Panel	Multi-point capacitive (5 / 10-point), glove & wet-hand, active or passive stylus
Cover Glass	G+G, 7H hardness (optional AG+AF anti-glare, AR anti-reflective)

RFID & Data Capture

UHF RFID	Impinj R2000 module, read range 10–12 m (alternative PR9200 module, 5–8 m) · EPC Gen2 tag reading only — no tag writing or encoding
HF / NFC	13.56 MHz, ISO14443A / ISO14443B / ISO15693 (optional module)
Scan Engine	1D: Zebra SE655 (optional) · 2D: Zebra SE4710 (optional)
Camera	Front 5 MP fixed focus · rear 13 MP auto-focus, 1 A true-flash

Wireless & Positioning

WWAN	LTE-FDD B1/B2/B3/B4/B5/B7/B8/B20/B28A/B28B/B12/B13/B14/B66/B71 · LTE-TDD B38/B39/B40/B41 · WCDMA B1/B2/B5/B8 · GSM B2/B3/B5/B8
WLAN	IEEE 802.11 a/b/g/n/ac dual-band 2.4 GHz + 5.8 GHz
Bluetooth	Bluetooth 5.3 (BLE), class 1, up to 10 m
GNSS	GPS + BeiDou + Galileo + GLONASS

Ruggedness & Power

Ingress Protection	IP67 (certificate held)
Drop Protection	1.2 m drops to concrete
Operating Temp	–20°C to +60°C
Storage Temp	–30°C to +70°C
Battery	10,000 mAh , 3.8 V high-voltage lithium · option of removable battery · ~10 h at 1080p / 50% brightness
Charging	5 V / 3 A DC input · 12-pin Pogo Pin dock charging

I/O & Physical

I/O Ports	USB Type-C 2.0 (OTG) · USB 2.0 Type-A · RJ45 100 Mbps · DC 5 V / 3 A · 3.5 mm headphone · Pogo Pin 12-pin · Micro SIM · microSD
Sensors	Gravity, gyroscope, e-compass, light, proximity
Buttons	Power × 1 · volume × 2 · programmable P / F keys × 2
Audio	Dual 1.2 W / 8 Ω speakers (IP67) · IP67 earpiece · dual mics (IP67)
Dimensions	226 × 145 × 21.8 mm
Weight	TBD — to be confirmed
Colour	Orange & black (custom colours available)
Certifications	GMS · CE · CCC · RoHS 2.0 · IEC 62133 · IP67 · MSDS · UN38.3 · air / sea transport appraisal

Warranty, Service & Ordering

Standard warranty	12 months from shipment
First response	Within 24 hours on any support request
RMA process	4-step return and replacement workflow
Evaluation unit	1–2 week evaluation units on request · low MOQ
Branding	White label, OEM and ODM programmes available

Product note. The JMDU80 uses an **Impinj R2000** (or PR9200) UHF RFID module. It **does not** use the Zebra RE40 RFID module found in the JNXRFID JRE series desktop readers. It is a UHF RFID **read-only** device: it reads EPC Gen2 tags but **cannot write or encode RFID tags**, and it does not print labels. For tag writing or label encoding, pair it with the JNXRFID JD240TR or JT240TR encoding printers — the tablet reads, the printer writes. For a barcode-only 8-inch rugged tablet, see the JMDT80.