



UHF RFID



C71

**Mobile Computer
UHF RFID**



Android



4G



Wi-Fi



Bluetooth



UHF



1D Barcode



2D Barcode



NFC



Camera



GPS

Chainway C71 is an Android rugged mobile computer. It can be configured with an internal UHF module with circularly polarized antenna, supporting the latest Impinj Gen2X for enhanced UHF performance. With its powerful processor and wireless connections, you can find this easy-to-deploy device an exceptionally valuable helper to increase working efficiency and productivity in retail, logistics and healthcare.



Specification

Performance

CPU	Octa-core, 2.3GHz
RAM+ROM	3GB + 32GB / 4GB + 64GB (optional)
Expansion	Supports up to 256GB Micro SD (TF) card
Operating System	Android 11 / 13; GMS, FOTA, Soti MobiControl, SafeUEM supported.

Communication

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
WWAN	2G: GSM850/GSM900/DCS1800/PCS1900 3G: WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BCO TD-SCDMA: A/F 4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/ B34/B38/B39/B40/B41
Bluetooth	Bluetooth 5.0
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna

Physical Characteristics

Dimensions	164.2 x 78.8 x 17.5 mm / 6.46 x 3.10 x 0.69 in.
Weight	321 g / 11.32 oz.
Display	5.2" IPS LTPS 1920 x 1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 5000mAh Standby: over 350 hours Continuous use: over 12 hours (depending on user environment) Charging time: 3-4 hours (with standard adaptor and USB cable)
Expansion Slot	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
Interfaces	USB 2.0 Type-C, OTG, Type-C headphones supported
Sensors	Light sensor, proximity sensor, gravity sensor
Notification	Sound, LED indicator, vibrator
Audio	2 microphones, 1 for noise cancellation; 1 speaker; receiver
Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key

Developing Environment

SDK	Chainway Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	-4°F to 113°F / -20°C to 45°C
Storage Temp.	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.8m / 5.9ft. drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m / 1.64ft. falls at room temperature
Sealing	IP65 / IP67 per IEC sealing specifications
ESD	± 15KV air discharge, ± 6KV conductive discharge

Data Collection

UHF RFID

Engine	Based on Impinj E Series chips
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Impinj Gen2X	Supported
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization
Power	1W (+5dBm to +30 dBm adjustable)
Max Read Range	3m (Impinj MR6 tag, size 70 x 15mm) 3m (Impinj M750 tag, size 70 x 15mm) 4m (Alien H3 Anti-Metal tag, size 130 x 42mm)

* Ranges are measured in the open outdoors and low interference environment, and rate is measured in a laboratory low interference environment, they are affected by tags and environment.

Camera

Rear Camera	13MP Autofocus with flash Facial Recognition ISO19794-5 Compatible
Front Camera (optional)	5MP camera

NFC

Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4cm

Barcode Scanning (optional)

1D Linear Scanner	Honeywell: N4313
1D Symbolics	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Imager Scanner	Zebra: SE4710 / SE4750SR / SE4750MR / SE4750DP; Honeywell: N6603; CM60
2D Symbolics	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), etc.

Accessories

Standard	AC Adaptor, USB Cable, Lanyard, etc.
Optional	Cradle, Holster, etc.

* For detailed specification, please check Accessory Guide.

Notice: Product specifications are subject to change without prior notice. / Model: C71 UHF / Update Date: 2025-09-15

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