



# C5

## Handheld RFID Reader



Chainway C5 is an upgraded all-in-one high-performance UHF RFID Reader. It has Integrated a self-developed Impinj E710/R2000 based UHF module which offers industry-leading UHF performance. C5 adopts an integrated design, provides more stable UHF performance, and delivers higher durability. The superior system configuration of the mobile computer features the Android 11 platform, octa-core processor, optional mass internal memory and a large capacity removable battery. C5 also supports 2D scanning, NFC, fingerprint recognition and other functions, which enables it to be widely used in scenarios like banking, public security, warehousing, retail, logistics and other industries.



# Specification

## Performance

<b>CPU</b>	Octa-core, 2.3GHz
<b>RAM+ROM</b>	3GB + 32GB / 4GB +64GB (Optional) / 6GB + 128GB (Optional)
<b>Expansion</b>	Supports up to 128GB Micro SD card
<b>Operating System</b>	Android 11

## Communication

<b>WLAN</b>	802.11 a / b / g / n / ac, 2.4G / 5G dual-band
<b>WWAN</b>	2G: GSM (B2 / B3 / B5 / B8)
	3G: WCDMA (B1 / B2 / B4 / B5 / B8) CDMA2000 ECDO: BC0
	4G: B1 / B2 / B3 / B4 / B5 / B7 / B8 / B12 / B17 / B20 / B28A / B28B / B38 / B39 / B40 / B41
<b>Bluetooth</b>	5.0
<b>Vo-LTE</b>	Support
<b>GNSS</b>	GPS / AGPS, GLONASS, BeiDou, Galileo

## Physical Characteristics

<b>Dimensions</b>	177.0 x 80.2 x 14.8mm / 6.97 x 3.15 x 0.58in
<b>Weight</b>	598g / 21.09oz. (device with battery)
<b>Display</b>	5-inch (Fingerprint), 1280 x 720 / 6-inch, 2400 x 1080
<b>Touch Panel</b>	Multi-touch panel, gloves and wet hands supported;
<b>Battery</b>	6700mAh / 13400mAh removable pistol battery
	Built in 100mAh backup battery, supporting battery hot swap
<b>Card slot</b>	2 slots for PSAM card; 1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
<b>Interfaces</b>	USB 2.0 Type-C, OTG, Type-C headphones supported
<b>Audio</b>	2 microphones, 1 for noise cancellation; 1 speakers; 1 receiver
<b>Notification</b>	Sound, LED indicator, vibrator
<b>Keypad</b>	1 power key, 2 scan keys, 1 user-defined key, 2 volume keys (+/-)
<b>Sensor</b>	Gravity sensor, proximity sensor, light sensor, geomagnetic sensor (optional), gyroscope (optional)

## Developing Environment

<b>SDK</b>	Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

## User Environment

<b>Operating Temp.</b>	-20 °C to 50 °C / 4 °F to 122 °F
<b>Storage Temp.</b>	-40 °C to 70 °C / -40 °F to 158 °F
<b>Humidity</b>	5%RH to 95%RH (non condensing)
<b>Drop Specification</b>	Multiple 1.5m / 5.9ft. drops (at least 28 times) to the concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5m / 1.64 ft. falls at room temperature
<b>Sealing</b>	IP65 per IEC sealing specifications
<b>ESD</b>	±15KV air discharge, ±8KV conductive discharge

## Data Collection

### Camera

<b>Front camera</b>	5MP
<b>Rear camera</b>	Rear 13MP Autofocus with flash

### UHF

<b>Protocol</b>	EPCglobal Gen 2 (ISO18000-6C)
<b>Frequency</b>	865-868MHz / 920-925MHz / 902-928MHz
<b>Engine</b>	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
<b>Output power</b>	1W (30dBm, +5dBm to +30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
<b>Antenna</b>	Circular polarization; 5dBi / 4dBi (NFC supported)
<b>Fastest Read Rate</b>	950+ tags / sec (Circular Polarized)

\* Ranges and rates depend on tags and environment

### Fingerprint (Optional)

<b>Fingerprint</b>	TLK1NC02
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### NFC (Optional)

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

### Barcode Scanning (Optional)

<b>2D Scanner</b>	CM60; Zebra: SE4710
<b>1D Symbologies</b>	UPC / EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS etc.
<b>2D Symbologies</b>	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

USB Cable, Adapter, Charging Cradle for device (optional), Charging Cradle for Pistol Battery (optional), etc.

\* Please check details in accessories guide

Notice: Product specifications are subject to change without prior notice. / Model: C5 / Update Date: 2023-05-18

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