



C5

Handheld RFID Reader



Chainway C5 is an upgraded all-in-one high-performance UHF RFID Reader. It Integrates a self-developed Impinj E Series chips based UHF module, supporting Impinj Gen2X, offering 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 / 13 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

| | |
|------------------|---|
| CPU | Octa-core, 2.2GHz |
| RAM+ROM | 3GB + 32GB / 4GB +64GB (Optional) |
| Expansion | Supports up to 256GB Micro SD (TF) card |
| Operating System | Android 11/13 |

Communication

| | |
|-----------|--|
| WLAN | 802.11 a / b / g / n / ac, 2.4G / 5G dual-band |
| WWAN | 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 |
| Bluetooth | 5.0 |
| Vo-LTE | Support |
| GNSS | GPS / AGPS, GLONASS, BeiDou, Galileo |

Physical Characteristics

| | |
|--------------|---|
| Dimensions | 178.8 x 96.5 x 128.4mm / 7.03 x 3.80 x 5.06in |
| Weight | 626g / 22.08oz. (device with battery) |
| Display | 5-inch (Fingerprint), 1280 x 720 / 6-inch, 2160 x 1080 |
| Touch Panel | Multi-touch panel, gloves and wet hands supported; Corning Gorilla Glass |
| Battery | 6700mAh / 13400mAh removable pistol battery |
| | Built in 100mAh backup battery, supporting battery hot swap |
| Card slot | 2 slots for PSAM card (optional); 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 |
| Audio | 1 microphone; 1 speakers; 1 receiver |
| Notification | Sound, LED indicator, vibrator |
| Keypad | 1 power key, 2 scan keys, 1 user-defined key, 2 volume keys (+/-) |
| Sensor | Gravity sensor, proximity sensor, light sensor, geomagnetic sensor (optional), gyroscope (optional) |

Developing Environment

| | |
|----------|--------------------------|
| SDK | Software Development Kit |
| Language | Java |
| Tool | Eclipse / Android Studio |

User Environment

| | |
|----------------------|---|
| Operating Temp. | -20 °C to 50 °C / 4 °F to 122 °F |
| Storage Temp. | -40 °C to 70 °C / -40 °F to 158 °F |
| Humidity | 5%RH to 95%RH (non condensing) |
| Drop Specification | Multiple 1.5m / 4.9ft. drops to the concrete across the operating temperature range |
| Tumble Specification | 1000 x 0.5m / 1.64 ft. falls at room temperature |
| Sealing | IP65 per IEC sealing specifications |
| ESD | ±15KV air discharge, ±8KV conductive discharge |

Data Collection

Camera

| | |
|--------------|--------------------------------|
| Front camera | 5MP |
| Rear camera | Rear 13MP Autofocus with flash |

UHF

| | |
|-------------------|--|
| Impinj Gen2X | Supported |
| Protocol | EPCglobal Gen 2 (ISO18000-6C) |
| Frequency | 865-868MHz / 920-925MHz / 902-928MHz |
| Engine | Based on Impinj E Series chips |
| Output power | 1W (30dBm, +5dBm to +30dBm adjustable) |
| | 2W Optional (33dBm, for Latin America, etc.) |
| Max Read Range | 30m (Impinj MR6 tag, size 70 x 15mm) |
| | 32m (Impinj M750 tag, size 70 x 15mm) |
| | 33m (Alien H3 Anti-Metal tag, size 130 x 42mm) |
| Fastest Read Rate | 1300+ tags / sec (Circular Polarized) |

* Ranges and rates depend on tags and environment

Fingerprint (Optional)

| | |
|-----------------------|---|
| Sensor | TLK1NC02 |
| Sensing Area (mm) | 14.0 X 22.0 |
| Resolution (dpi) | 508dpi, 256 greylevel |
| Certifications | FIPS 201, FBI |
| Format Extraction | ISO19794, WSQ, ANSI 378, JPEG2000 |
| Fake Finger Detection | Support by SDK |
| Security | AES, DES key encryption of the host communication channel |

NFC (Optional)

| | |
|-----------|--|
| 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)

| | |
|----------------|--|
| 2D Scanner | CM60; Zebra: SE4710 |
| 1D Symbologies | UPC / EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS etc. |
| 2D Symbologies | 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: 2025-09-15

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