CHAINWAY®

## 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 1.5dBi 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<br>CDMA2000 EVDO: BC0<br>TD-SCDMA: A/F |
| | 4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/<br>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 / 5.91ft. 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** | CM-3N module based on Impinj E310 |
| **Frequency** | 865-868 MHz / 920-925 MHz / 902-928 MHz |
| **Impinj Gen2X** | Supported |
| **Protocol** | EPC C1 GEN2 / ISO18000-6C |
| **Antenna** | Circular polarization (1.5 dBi) |
| **Power** | 1 W (+5dBm to +30 dBm adjustable) |
| **Max Read Range** | 3m (Impinj MR6 tag, size 70 x 15mm)<br>3m (Impinj M750 tag, size 70 x 15mm)<br>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<br>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 Symbologies** | 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 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

| | |
|---|---|
| **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: 2024-12-04

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