

**CHAINWAY®**



# C72

## UHF RFID Reader



Android



4G



WiFi



Bluetooth



UHF



1D Barcode



2D Barcode



NFC



Camera



GPS

Chainway C72 is an Android rugged mobile computer. It features powerful processor, 8000mAh battery and superb UHF RFID capability. It can be equipped with R2000 linearly or circularly polarized antenna. That it can read tags in bulk from long distance enables it to be deployed in asset management, retail, warehousing, fleet management and etc.



# Specification

| Performance              |                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------|
| CPU                      | Cortex-A53 2.5 GHz Octa-core                                                                              |
| RAM+ROM                  | 3 GB + 32 GB<br>4 GB + 64 GB (optional)                                                                   |
| Expansion                | Supports up to 128 GB Micro SD card                                                                       |
| Operating System         | Android 8.1; Soti MobiControl, SafeUEM supported                                                          |
| Communication            |                                                                                                           |
| WLAN                     | IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna                                                |
| WWAN (China)             | 2G: 900/1800 MHz                                                                                          |
|                          | 3G: WCDMA: B1,B8                                                                                          |
|                          | CDMA2000 EVDO: BC0                                                                                        |
|                          | TD-SCDMA: B34,B39                                                                                         |
| WWAN (Overseas)          | 4G: B1,B3,B5,B8,B34,B38,B39,B40,B41                                                                       |
|                          | 2G: 850/900/1800/1900 MHz                                                                                 |
|                          | 3G: B1,B2,B4,B5,B8                                                                                        |
|                          | 4G: B1,B2,B3,B4,B5,B7,B8,B12,B17,B20,B25,B40,B66                                                          |
| WWAN (Others)            | Depending on the country's ISP                                                                            |
| Bluetooth                | Bluetooth v2.1+EDR,3.0+HS,v4.1+HS                                                                         |
| GNSS                     | GPS/AGPS, GLONASS, BeiDou; internal antenna                                                               |
| Physical Characteristics |                                                                                                           |
| Dimensions               | 164.2 x 80.0 x 24.3 mm / 6.46 x 3.15 x 0.96 in.                                                           |
| Weight                   | 654 g / 23.07 oz.                                                                                         |
| Display                  | 5.2" IPS FHD 1920 x 1080                                                                                  |
| Touch Panel              | Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported                                  |
| Power                    | Li-ion, rechargeable, 8000 mAh                                                                            |
|                          | Standby: over 500 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 SIM card, 1 slot for SIM or TF card                                                            |
| Interfaces               | USB 2.0 Type-C, OTG, TypeC headphones supported                                                           |
| Audio                    | Speaker, 2 microphones                                                                                    |
| Keypad                   | 4 front keys, 1 power key, 2 scan keys, 1 multifunctional key                                             |
| Sensors                  | Gravity sensor, light sensor, proximity sensor                                                            |
| User Environment         |                                                                                                           |
| Operating Temp.          | -4 °F to 122 °F / -20 °C to 50 °C                                                                         |
| Storage Temp.            | -40 °F to 158 °F / -40 °C to 70 °C                                                                        |
| Humidity                 | 5% RH - 95% RH non condensing                                                                             |
| Drop Specification       | Multiple 1.5 m / 4.9 ft. drops (at least 20 times) to the concrete across the operating temperature range |
| Tumble Specification     | 1000 x 0.5 m / 1.64 ft. falls at room temperature                                                         |
| Sealing                  | Host IP65 per IEC sealing specifications                                                                  |
| ESD                      | ±15 KV air discharge, ±6 KV conductive discharge                                                          |

| Developing Environment                                      |                                                                                                                                                                                                             |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDK                                                         | Chainway Software Development Kit                                                                                                                                                                           |
| Language                                                    | Java                                                                                                                                                                                                        |
| Tool                                                        | Eclipse / Android Studio                                                                                                                                                                                    |
| Data Collection                                             |                                                                                                                                                                                                             |
| Camera                                                      |                                                                                                                                                                                                             |
| Camera                                                      | 13 MP Autofocus with flash                                                                                                                                                                                  |
| RFID (Optional)                                             |                                                                                                                                                                                                             |
| UHF                                                         |                                                                                                                                                                                                             |
| Engine                                                      | CM2000-1 module based on Impinj Indy R2000                                                                                                                                                                  |
| Frequency                                                   | 865-868 MHz / 920-925 MHz / 902-928 MHz                                                                                                                                                                     |
| Protocol                                                    | EPC C1 GEN2 / ISO18000-6C                                                                                                                                                                                   |
| Antenna                                                     | Linear polarization(1.8dBi); circular polarization (4dBi)                                                                                                                                                   |
| Power                                                       | 1 W (30 dBm, +5 dBm to +30 dBm adjustable)                                                                                                                                                                  |
|                                                             | 2 W Optional (33 dBm, for Latin America, etc.)                                                                                                                                                              |
| R/W range                                                   | >25 m (circular polarization, indoors); >15 m (circular polarization, open outdoors, Impinj MR6 tag); >21 m (linear polarization, indoors); >7 m (linear polarization, open outdoors)                       |
| Fastest Read Rate                                           | 900+ tags/sec (circular polarization)                                                                                                                                                                       |
| * Ranges and rates depend on tags and environment           |                                                                                                                                                                                                             |
| Barcode Scanning (Optional)                                 |                                                                                                                                                                                                             |
| 1D Linear Scanner                                           | Zebra: SE965; Honeywell: N4313                                                                                                                                                                              |
| 1D Symbolologies                                            | 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 / SE4750 / SE4750MR; Honeywell: N6603                                                                                                                                                         |
| 2D Symbolologies                                            | 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. |
| NFC (optional)                                              |                                                                                                                                                                                                             |
| Frequency                                                   | 13.56 MHz                                                                                                                                                                                                   |
| Accessories                                                 |                                                                                                                                                                                                             |
| Standard                                                    | AC Adaptor, USB Cable, etc.                                                                                                                                                                                 |
| Optional                                                    | Cradle, Holster , etc.                                                                                                                                                                                      |
| * For detailed specification, please check Accessory Guide. |                                                                                                                                                                                                             |
|                                                             |                                                                                                                                                                                                             |