

CHAINWAY C72 UHF RFID

RUGGED-IT



UHF RFID Reader & Barcode Scanner



Android



4G



WiFi



Bluetooth



UHF



1DBarcode



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 Impinj E710/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

| | |
|-------------------------|---|
| Operating System | Android 11;GMS,FOTA, SafeUEM supported. Committed support for a future upgrade to Android 12, 13,and Android 14pending feasibility |
| CPU | Cortex-A53 2.3 GHz Octa-core |
| RAM+ROM | 3 GB +32 GB /4 GB +64 GB (optional) |
| Expansion | Supports up to 128GB Micro SD card |

Communication

| | |
|------------------|--|
| WLAN | IEEE802.11a/b/g/n/ac, 2.4G/5G dual-band, internal antenna |
| Bluetooth | Bluetooth 5.0 |
| GNSS | GPS/AGPS, GLONASS, BeiDou; internalantenna |
| 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 |

Physical Characteristics

| | |
|-----------------------|---|
| Dimensions | 164.2 x 80.0 x 24.3 mm /6.46 x 3.15x 0.96 in. |
| Weight | 654 g /23.07 oz. |
| Display | 5.2" IPS LTPS 1920x 1080 |
| Touch Panel | Corning Gorilla Glass, multi-touchpanel, gloves and wet hands supported |
| Power | Li-ion,rechargeable, 8000 mAh |
| | Standby: over 500 hours |
| | Continuous use: over 12hours (depending on user environment) Charging time: 3-4hours (with standard adaptor and USB cable) |
| Expansion Slot | 1slot for Nano SIM card, 1slot for Nano SIM or TF card |
| Interfaces | USB 2.0 Type-C,OTG, Type-Cheadphones supported |
| Sensors | Light sensor, proximitysensor, gravity sensor |
| Notification | Sound, LED indicator |
| Audio | 1microphone; 1speaker; receiver |
| Keypad | 4 front keys, 1power key, 2 scan keys, 1multifunctional key |

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 1.5m /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 | IP65 per IEC sealing specifications |
| ESD | ±15KVair discharge, ±6KV conductive discharge |

Developing Environment

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

Data Collection

Camera

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|---------------|---------------------------|
| Camera | 13MP Autofocus with flash |
|---------------|---------------------------|

RFID (Optional)

UHF

| | | |
|-----------------------|---|---------------------------------------|
| Engine | CM710-1module based on Impinj E710 CM2000-1module based on Impinj Indy R2000 | |
| Frequency | 865-868 MHz /920-925 MHz /902-928 MHz | |
| Protocol | EPC C1GEN2 /ISO18000-6C | |
| Antenna | Circular polarization (4dBi), linear polarization(1.8dBi) | |
| Power | 1W (30 dBm, +5dBm to +30dBm adjustable) | |
| | 2 W Optional (33 dBm, for Latin America, etc.) | |
| Max Read Range | ImpinjE710 chip: 26m (ImpinjMR6 tag, size70x15mm) 28m (ImpinjM750 tag, size70x15mm) 30m (AlienH3 Anti-Metal tag, size130x42mm) | |
| | ImpinjR2000 chip: 24m (ImpinjMR6 tag, size70x15mm) 24m (ImpinjM750 tag, size70x15mm) 28m (AlienH3 Anti-Metal tag, size130x42mm) | |
| | Fastest Read Rate | 1200+tags/sec (circular polarization) |
| | *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. | |

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Barcode Scanning (Optional)

| | |
|--------------------------|---|
| 1DLinear Scanner | Zebra: SE965; Honeywell: N4313 |
| 1DSymbologies | 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 |
| 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. |

NFC (Optional)

| | |
|------------------|---|
| Frequency | 13.56 MHz |
| Protocol | ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc. |
| Chips | M1card (S50, S70), CPU card, NFC tags, etc. |
| Range | 2-4 cm |

Accessories

| | |
|-----------------|-----------------------------|
| Standard | AC Adaptor, USB Cable, etc. |
| Optional | Cradle, Holster, etc. |

*For detailed specification, please check Accessory Guide.