



# C72

## UHF RFID Reader

-  Android
-  4G
-  WiFi
-  Bluetooth
-  UHF
-  1D Barcode
-  2D Barcode
-  IRIS
-  NFC/HF
-  Camera
-  GPS

Chainway C72 is an Android rugged mobile computer. It features quad-core 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 distances enables this single device to be deployed in asset management, retail, warehousing, fleet management, etc.



# Specification

## Physical Characteristics

<b>Dimensions</b>	164.2 x 80.0 x 24.3mm / 6.46 x 3.15 x 0.96in
<b>Weight</b>	654g / 23.07oz
<b>Display</b>	5.2" IPS FHD 1920x1080
<b>Touch Panel</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Power</b>	Li-ion, rechargeable, 8000mAh
	Standby: over 500 hours
	Continuous use: over 12 hours (depending on user environment) Charging time: 3-4 hours (with standard adaptor and USB cable)
<b>Expansion Slot</b>	1 slot for SIM card, 1 slot for SIM or TF card
<b>Interfaces</b>	USB 2.0 Type-C, OTG
<b>Audio</b>	Speaker, 2 microphones
<b>Keypad</b>	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
<b>Sensors</b>	Gravity sensor, light sensor, proximity sensor, vibration motor

## Performance

<b>CPU</b>	Cortex-A53 Quad-core 1.3GHz
<b>RAM+ROM</b>	2GB+16GB
<b>Expansion</b>	Supports up to 32 GB Micro SD card

## User Environment

<b>Operating Temp.</b>	-4°F to 122°F / -20°C to 50°C
<b>Storage Temp.</b>	-40°F to 158°F / -40°C to 70°C
<b>Humidity</b>	5%RH - 95%RH non condensing
<b>Drop Specification</b>	Multiple 1.5m/4.9ft drops (at least 20 times) to the concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5m/1.6ft falls at room temperature
<b>Sealing</b>	Host IP65
<b>ESD</b>	±8KV air discharge, ±4KV conductive discharge

## Developing Environment

<b>Operating System</b>	Android 6.0
<b>SDK</b>	Chainway Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

## Communication

<b>WLAN</b>	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
<b>WWAN(Europe)</b>	2G: 850/900/1800/1900MHz
	3G: 850/900/1900/2100MHz
	4G: B1, B3, B5, B7, B8, B20, B40

<b>WWAN(America)</b>	2G: 850/900/1800/1900MHz
	3G: 850/900/1700/1900MHz
	4G: B2, B4, B7, B12, B17
<b>WWAN (China)</b>	2G: 900/1800MHz
	3G: 900/1900/2000/2100MHz
	4G: B1, B3, B5, B38, B39, B40, B41
<b>WWAN (Others)</b>	Depending on the country's ISP
<b>Bluetooth</b>	Bluetooth 4.0, BLE
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou; internal antenna

## Data Collection

### Camera

<b>Camera</b>	13MP Autofocus with flash
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### RFID

#### UHF

<b>Frequency</b>	865MHz-868MHz / 920-925MHz / 902-928MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Antenna</b>	Linear polarization(1.8dBi); circular polarization (4dBi)
<b>Power</b>	1W (30dBm, +5dBm to +30dBm adjustable)
<b>R/W range</b>	>6m (linear polarization); >10m (circular polarization, open outdoors); >20m (circular polarization, indoors)
<b>Reading rate</b>	>200 tags/s (circular polarization)

\* Ranges and rates depend on tags and environment

## Barcode Scanning (Optional)

<b>1D Linear Scanner</b>	Honeywell N4313
<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 Imager Scanner</b>	Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603
<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.

## Iris (optional)

<b>Rate</b>	<150ms
<b>Range</b>	20-40cm
<b>FAR</b>	1/1000000

## HF/ NFC (optional)

<b>Frequency</b>	13.56MHz
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\*HF RFID is alternative to NFC.

## Accessories



Cradle (Optional)



AC Adaptor



USB Cable

Notice: Product specifications are subject to change without prior notice. / Model: C72 / Update Date: 2017-12-29

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