



# C76

## UHF RFID Reader



Android



4G



WiFi



Bluetooth



UHF



1D Barcode



2D Barcode



IRIS



NFC



Camera



GPS

Chainway C76, based on Android operating system, is newly developed to be much lighter than previous UHF RFID readers. It features powerful processor, 6600mAh battery, distant UHF RFID capability, NFC, barcode scanning, and iris recognition. This rugged device can be deployed in chain stores, retail inventory management, asset management, warehousing, fleet management, ETC, and finance.



# Specification

## Physical Characteristics

<b>Dimensions</b>	162.5*80.0*14.5mm/6.40*3.15*0.57in
<b>Weight</b>	540g/19.0oz
<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>	Main battery: Li-ion, rechargeable, 4000mAh Pistol battery: Li-ion, 2600mAh Standby: over 400 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>	USB2.0 Type-C, OTG
<b>Audio</b>	Speaker, microphone
<b>Keypad</b>	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
<b>Sensors</b>	Gravity sensor, light sensor, proximity sensor

## Performance

<b>CPU</b>	Cortex-A53 Quad-core 1.45GHz
<b>RAM+ROM</b>	2GB+16GB
<b>Expansion</b>	Supports up to 128 GB Micro SD card

## 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

## 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>ESD</b>	±15KV air discharge, ±6KV conductive discharge

## Communication

<b>WLAN</b>	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
<b>WWAN (China)</b>	2G: 900/1800MHz 3G: 900/1900/2000/2100MHz 4G: TDD-LTE: B38, B39, B40, B41 FDD-LTE: B1, B3, B5
<b>Bluetooth</b>	Bluetooth 4.0, BLE
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou; internal antenna

## Data Collection

### Camera

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

### UHF

<b>Engine</b>	CM2000-1 module based on Impinj Indy R2000
<b>Frequency</b>	865MHz-868MHz / 920-925MHz / 902-928MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Antenna</b>	Circular polarization (3dBi)
<b>Power</b>	1W (30dBm, +5dBm to +30dBm adjustable)
<b>R/W range</b>	> 22m (indoors); > 8m (open outdoors)
<b>Reading rate</b>	> 200 tags/s

\* Ranges and rates depend on tags and environment

### NFC (Optional)

<b>Frequency</b>	13.56MHz
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### Barcode Scanning (Optional)

<b>2D Imager Scanner</b>	Honeywell N6603
<b>1D Symbolologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSS, etc.
<b>2D Symbolologies</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.

### Front Iris (optional)

<b>Rate</b>	<150ms
<b>Range</b>	20-40cm
<b>FAR</b>	1/10000000
<b>Protocol</b>	ISO/IEC 19794-6, GB/T 20979-2007

## Accessories (See details in Accessory Guide)



AC Adaptor



USB Cable

Notice: Product specifications are subject to change without prior notice. / Model: C76 / Update Date: 2019-05-07

**CHAINWAY**<sup>®</sup>

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