



R2

UHF RFID Bluetooth Reader



Bluetooth



1D Barcode



2D Barcode



UHF

Chainway R2 is a newly-developed handheld data collection device with a stylish design and incredible performance. It delivers superior UHF reading and writing capabilities, powered by Impinj Gen2X for enhanced RFID performance. The device also supports barcode scanning and transmits data to the data center via Bluetooth with ease. With its versatility, the R2 is ideal for tasks in inventory management, asset management, inspection, and other applications.

Specification

Physical Characteristics

Dimensions	282 x 117.5 x 32mm / 11.10 x 4.63 x 1.26in.
Weight	334g / 11.78oz. (with battery)
Colour	White
Appearance material	Plastic
Keypad	PWR button (side), up, down, return, ok, SCAN button (front)
Power	Battery specification: 5200mAh removable battery
	Standby: over 70 hours (keeping bluetooth connected)
	Continuous use: up to 6 hours (UHF reading)
	Charging time: 3-4 hours (with standard adaptor and USB cable)
Display	1.77inch, 128 x 160
Indicator LED	Power, Work, Bluetooth
buzzer	Support
Interfaces	Type-C

Performance

MCU	Cortex-M3
	72MHz
Storage	50000 tags

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 / 4.9ft. drops to concrete across the operating temperature range
Tumble Specification	1000 x 0.5m / 1.64ft. falls at room temperature
ESD	± 15KV air discharge, ± 8KV conductive discharge

Developing Environment

SDK	Android / IOS
Tool	Android Studio / Xcode
Language	Java / Objective-C

Communication

Bluetooth	Bluetooth Low Energy (BLE) 5.0
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Data Collection

Barcode Scanning (Optional)

2D Imager Scanner	SE2707
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 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.

UHF

Engine	CM710-1 module based on Impinj E710
Antenna	Linear Polarized antenna
Frequency	920-925MHz/902-928MHz/865-868MHz
Impinj Gen2X	Supported
Protocol	EPC C1 GEN2 / ISO18000-6C
Module power	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
Max Read Range	26m (Impinj MR6 tag, size 70 x 15mm)
	27m (Impinj M750 tag, size 70 x 15mm)
	31m (Alien H3 Anti-Metal tag, size 130 x 42mm)
Fastest Read Rate	900+ tags/sec

* 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.

Accessories (See details in Accessory Guide)



AC Adapter

USB cable

Notice: Product specifications are subject to change without prior notice. / Model: R2 / Update Date: 2025-08-04

CHAINWAY®

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