CHAINWAY

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R5

Wearable UHF Reader

Chainway R5 is a newly-developed wearable UHF reader that enables read distance of 14m. Additionally, it supports the latest Impinj Gen2X for enhanced RFID performance. By adapting wrist strap or arm strap, it can be attached to mobile phone, tablet and other devices by magnetic attachment. It features removable battery, performs data transmission via Type C USB, and enables user information interaction via Bluetooth coordinated with APP or SDK. And it also can be paired with Android/IOS device to expand RFID capability. This RFID reader can be suitable for warehousing, power inspection, asset management, retail, etc., which provides users with more flexibility to efficiently finish their tasks at hand.



Specification

Physical Characteristics

Dimensions	108mm × 78mm × 18mm
Weight	200g / 7.05oz.
Port	USB Type C
Button	ON / OFF, SCAN
Battery	2000mAh (removable)
Charging Current	5V / 1.5A
Charging Duration	2 hours
LED Indicator	Red indicator will be ON when charging;
	Green indicator will be ON when device has been fully charged;
	Blue indicator will be ON when battery is higher than 20%;
	Blue indicator will flash when battery is lower than 20%;
	Bluetooth is not paired when bluetooth indicator is OFF;
	Bluetooth is paired when bluetooth indicator is ON

Developing Environment

SDK	Android / IOS SDK Supported

Communication

Type C USB	USB connection to realize data transfer
BT	Bluetooth Low Energy (BLE) 5.0

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
Dropping	1.5m / 4.92ft. dropping on concrete
Sealing	IP65

UHF

Engine	Based on Impinj E Series chips
Antenna parameter	Circular Polarized Antenna
Frequency	920-925MHz / 902-928MHz / 865-868MHz
Impinj Gen2X	Supported
Protocol	EPC C1 GEN2 / ISO18000-6C
Power	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
Max Read Range	11m (Impinj MR6 tag, size 70 x 15mm) 12m (Impinj M750 tag, size 70 x 15mm) 14m (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 (Optional)

Wrist strap / arm strap / magnetic handle

Notice: Product specifications are subject to change without prior notice. / Model: R5 / Update Date: 2025-09-15

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