



# R5

## Wearable BT RFID Reader

Chainway R5 is a newly-developed wearable UHF reader that enables read distance of 9m. 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

<b>Dimensions</b>	108 mm × 78 mm × 18 mm
<b>Weight</b>	200 g / 7.05 oz.
<b>Port</b>	Type C USB
<b>Button</b>	ON/OFF, SCAN
<b>Battery</b>	2000 mAh (removable)
<b>Charging Current</b>	5 V / 1.5 A
<b>Charging Duration</b>	2 hours
<b>Identification Lamp</b>	Red lamp (lights up constantly : charging)
	Green lamp (lights up constantly : charged)
	Blue lamp (lights up constantly : battery amount is higher than 20%; flashes : battery capacity is lower than 20%.)
	BT connection identification lamp (BT doesn't pair when blue lamp is OFF. BT has paired when blue lamp is ON.)

## Developing Environment

<b>Operating System</b>	Android / IOS SDK Supported
<b>Security</b>	RFID Encrypted Module (Reserve)

## Communication

<b>Type C USB</b>	USB connection to realize data transfer
<b>BT</b>	Bluetooth 4.0

## User Environment

<b>Operating Temp.</b>	-20 °C to +60 °C
<b>Storage Temp.</b>	-40 °C to +70 °C
<b>Humidity</b>	5% RH - 95% RH non condensing
<b>Dropping</b>	1.2 m dropping on concrete
<b>Sealing</b>	IP65

## UHF

<b>Engine</b>	CM2000-1 module based on Impinj Indy R2000
<b>Antenna parameter</b>	Circular Polarized Antenna (3dBic)
<b>Frequency</b>	920-925 MHz / 902-928 MHz / 865-868 MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Power</b>	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
<b>R/W range</b>	> 9 m (open outdoors, Impinj MR6 tag)
<b>Reading rate</b>	> 200 tags/s

\*Ranges and rates depend on 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: 2020-01-20

**CHAINWAY**<sup>®</sup>

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