



R6

UHF RFID Sled Reader



Bluetooth



1D Barcode



2D Barcode



UHF

Chainway RFID Sled Reader R6 offers powerful UHF reading and writing capabilities powered by the Impinj E Series chips and Impinj Gen2X, along with high-sensitivity barcode scanning. You can attach the mobile phone to R6 UHF Sled Reader for a complete one-piece solution. The device can be widely deployed in power patrol inspection, asset tracking, clothing inventory, warehouse management, vehicle management, financial management, and so forth.



Specification

Physical Characteristics

Dimensions	151 x 76 x 132 mm / 5.94 x 2.99 x 5.19 in.
Weight	RFID configuration: 438 g (including battery) RFID + Engine configuration: 446 g (including battery)
Colour	Black
Power	Battery specification: 5200 mAh removable battery
	Standby: over 70 hours (keeping bluetooth connected)
	Continuous use: up to 2.5 hours (UHF reading: 400 tags)
	Charging time: 4-5 hours (with standard adaptor and USB cable)
Interfaces	USB 3.0 Type-C
Buzzer	Support
Indicator LED	Power, Work, Bluetooth
Product material	ABS, Aluminum Alloy
Size of adapted phone	Sled Reader: Width 68~80 mm, thickness: within 22 mm
	Others: Based on phone case or holder

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
Tumble Specification	1000 x 0.5 m / 1.64 ft. falls at room temperature
Drop Specification	Multiple 1.5 m / 4.92 ft. drops to concrete across the operating temperature range
Sealing	IP54 per IEC sealing specifications
ESD	±15 KV air discharge, ±8 KV 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

UHF	
Engine	Based on Impinj E Series chips
Protocol	EPC C1 GEN2 / ISO18000-6C
Impinj Gen2X	Supported
Frequency Range and Maximum System Output Power	FCC: 902 MHz – 928 MHz; 36 dBm (EIRP) EU: 865.6 MHz - 867.6 MHz; 35 dBm(EIRP) CH: 920.5 MHz- 924.5 MHz; 35 dBm (EIRP)
Output Power	1-30, step 1dB
Antenna parameter	Circular Polarized Antenna
Max Read Range	>26m (Impinj M830 tag)
Fastest Read Rate	1000+ 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.

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.

Accessories (See details in Accessory Guide)



AC Adapter



USB cable

Notice: Product specifications are subject to change without prior notice. / Model: R6 / Update Date: 2026-02-02

CHAINWAY®

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