



# R7

## UHF RFID Sled Reader



Bluetooth



1D Barcode



2D Barcode



UHF

Chainway RFID Sled Reader R7 offers powerful UHF reading and writing capabilities powered by the Impinj E Series chips and supports Impinj Gen2X, along with high-sensitivity barcode scanning. You can attach the mobile phone to R7 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

<b>Dimensions</b>	Standard version / Magnetic version: 157.1 x 85.22 x 146.42 mm / 6.18 x 3.36 x 5.76 in. Phone-clip version: 157.1 x 85.22 x 162.41 mm / 6.18 x 3.36 x 6.39 in.
<b>Weight</b>	Standard version: 459.3 g / 16.20 oz. Magnetic version: 590 g / 20.81 oz. Phone-clip version: 642 g / 22.65 oz.
<b>Colour</b>	Black
<b>Power</b>	Battery specification: 3.6V, 6700 mAh removable battery Supports NTC sensor and Battery Meter
<b>Interfaces</b>	USB 2.0 Type-C
<b>Buzzer</b>	Support
<b>Indicator LED</b>	Power, Work, Bluetooth, Wi-Fi, Mode
<b>Buttons</b>	1 power key; 1 handle key; 1 mode key
<b>Product material</b>	ABS, Aluminum Alloy
<b>NFC pairing</b>	Support
<b>Phone Mounting Methods</b>	No mobile phone holder (standard)
	Magnetic (optional)
	Clip (optional)
<b>Size of adapted phone</b>	Clip: Width 68~80 mm, thickness: within 22 mm Others: Based on phone case or holder

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

## Developing Environment

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

## Communication

<b>Bluetooth</b>	Bluetooth Low Energy (BLE) 5.0
<b>Bluetooth Level</b>	2
<b>Wi-Fi (Optional)</b>	2.4G/5G dual-band, 802.11 a/b/g/n/ac/ax

## Data Collection

### UHF

<b>Engine</b>	Based on Impinj E Series chips
<b>Antenna parameter</b>	Circular Polarized Antenna
<b>Frequency</b>	920-925 MHz / 902-928 MHz / 865-868 MHz
<b>Impinj Gen2X</b>	Supported
<b>Protocol</b>	EPCglobal Class 1 Gen 2 / ISO18000-63 RFID
<b>Power</b>	1W (30dBm, support +1~+30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
<b>Max Read Range</b>	>30m (Impinj M750 tag, size 70 x 15mm)
<b>Fastest Read Rate</b>	1300+ 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)

<b>2D Imager Scanner</b>	SE4107; NLS-N1; NLS-EM3596
<b>1D Symbologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
<b>2D Symbologies</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.

## Accessories (See details in Accessory Guide)



AC Adapter

USB cable

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