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	Sled Reader: 438 g / 15.45 oz.
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	Plastic
Size of adapted phone	Sled Reader: Width 68~80 mm, thickness: within 22 mm
	Others: Based on phone case or holder

Performance

MCU	Cortex-M3
	72MHz

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

Data Collection

UHF

Engine	Based on Impinj E Series chips
Antenna parameter	Circular Polarized Antenna
Frequency	920-925 MHz / 902-928 MHz / 865-868 MHz
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	30m (Impinj MR6 tag, size 70 x 15mm) 28m (Impinj M750 tag, size 70 x 15mm) 31m (Alien H3 Anti-Metal tag, size 130 x 42mm)
Fastest Read Rate	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)

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