



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 E710 chip 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

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|-----------------|------------------------|
| SDK | Android / IOS |
| Tool | Android Studio / Xcode |
| Language | Java / Objective-C |

Communication

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|------------------|--------------------------------|
| Bluetooth | Bluetooth Low Energy (BLE) 5.0 |
|------------------|--------------------------------|

Data Collection

| | |
|--------------------------|--|
| UHF | |
| Engine | CM710-1 module based on Impinj E710 |
| 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

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