

## UHF | RAIN - Sled Reader Chainway - R6

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant
- Up to 30 dBm (1 W) output power
- USB 3.0 Type-C & Bluetooth LE 5.0
- Optional 2D barcode scanner
- Removable 5200mAh battery



### UHF | RAIN - RFID & Barcode Powerful UHF Reading and Writing

Chainway R6 is specially designed for a complete one-piece solution with smart phone / PDA. Paired with Android / iOS-based smart phone and terminal, it can be easily transformed into a professional data collection device.

Built with Impinj E Series chips and supports Impinj Gen2X, it features more powerful UHF reading and writing that enables read distance of over 13m outdoors. The RFID reader is comfortable in hand, easily detached, and can fulfill tasks in power patrol inspection, apparel cycle-counting, warehousing, asset management, fleet management, finance, etc.

#### Common Applications

- Asset tracking
- Warehouse management
- Vehicle management
- Manufacturing production line tracking
- Logistics and supply chain tracking

**CHAINWAY**  
Powering Intelligence at the Source



## TECHNICAL SPECIFICATIONS

### Physical Characteristics

Dimensions	151 x 76 x 132 mm
Weight	438 g
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: 400tags) Charging time: 4-5 hours (with standard adaptor and USB cable)
Button	UHF and 2D / UHF or 2D
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.	-20°C to 50°C
Storage Temp.	-40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Tumble Specification	1000 x 0.5 m / falls at room temperature
Drop Specification	Multiple 1.5 m / drops to concrete across the operating temperature range
Sealing	IP54 per IEC sealing specifications
ESD	±15 KV air discharge, ±8 KV conductive discharge

### 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)
Max Read Range	11m (Impinj MR6 tag, size 70 x 15mm) 13m (Impinj M750 tag, size 70 x 15mm) 15m (Alien H3 Anti-Metal tag, size 130 x 42mm)
Fastest Read Rate	1300+ tags/sec

### 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.

### 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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