

UHF | RAIN - Sled Reader Chainway - R7

- RAIN RFID (EPCglobal Class 1 Gen2 / ISO 18000-63 compliant)
- Up to 30 dBm (1 W) output power
- USB 3.0 Type-C & Bluetooth® Low Energy (BLE 5.0)
- Optional professional 1D/2D barcode scanning
- Removable 5200mAh battery



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

The R7 from Chainway is a powerful UHF RFID sled reader designed to extend smartphones into professional-grade RFID data collection tools. Powered by the Impinj E710 chipset with Gen2X support, the R7 delivers long-range UHF performance with fast tag acquisition and reliable read accuracy in demanding environments.

Supporting EPCglobal Class 1 Gen2 / ISO 18000-63, the R7 enables efficient inventory counting, asset tracking and inspection workflows. Flexible phone mounting options, optional high-sensitivity barcode scanning and stable Bluetooth connectivity allow the R7 to adapt to a wide range of mobile use cases across logistics, retail and industrial operations.

Its ergonomic design, removable battery and rugged construction ensure dependable operation during extended mobile use, making the R7 a scalable solution for professional RFID deployments.

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	Standard version / Magnetic version: 157.1 x 85.22 x 144.83 mm Phone-clip version: 157.1 x 85.22 x 162.41 mm
Weight	Standard version: 459.3 g / 16.20 oz. Magnetic version: 477.7 g / 16.85 oz. Phone-clip version: 550.9 g / 19.43 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: 400tags) Charging time: 4-5 hours (with standard adaptor and USB cable)
Interfaces	USB 2.0 Type-C
Buzzer	Support
Indicator LED	Power, Work, Bluetooth
Product material	Plastic
Phone Mounting Methods	No mobile phone holder (standard) Magnetic (optional) Clip (optional)
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.	-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	CM710-1 module based on Impinj E710
Antenna parameter	Circular Polarized Antenna (4dBic)
Frequency	920-925 MHz / 902-928 MHz / 865-868 MHz
Impinj Gen2X	Supported
Protocol	EPCglobal Class 1 Gen 2 / ISO18000-63 RFID
Power	1W (30dBm, support +1~+30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
Max Read Range	30m (Impinj M750 tag, size 70 x 15mm)
Fastest Read Rate	1300+ tags/sec

Barcode Scanning (Optional)

2D Imager Scanner	SE2707; SE4107; NLS-N1; 3596
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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