R6

UHF RFID Sled Reader

Bluetooth   1D Barcode   2D Barcode   UHF

Chainway RFID Sled Reader R6 features powerful UHF reading and writing (Impinj E710 / R2000 chip), and barcode scanning with high sensitivity. You can attach 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.

Sled Reader

Sled Reader with
Mobile Case

Sled Reader with
Customized Holder

Specification

Physical Characteristics

Dimensions	143 x 76 x 140 mm / 5.63 x 2.99 x 5.51 in.
Weight	Sled Reader: 483 g / 17.04 oz.
	Sled Reader with Mobile Case: 453 g / 15.98 oz.
	Sled Reader with Customized Holder: 500 g / 17.64 oz
Colour	Black
Power	Battery specification: 5200 mAh removable battery
	Standby: over 70 hours (keeping bluetooth connected)
	Continuous use: up to 6 hours (UHF reading)
	Charging time: 3-4 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
Storage	20000 tags and 400 barcodes (optional)

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 4.0, BLE

Data Collection

UHF

Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Antenna parameter	Circular Polarized Antenna (3dBic)
Frequency	920-925 MHz / 902-928 MHz / 865-868 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Power	1W (30dBm, support +5~+30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
R/W range	Up to 13m (open outdoors, Impinj MR6 tag)
Fastest Read Rate	900+ tags/sec

*Ranges and rates depend on 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