UHF RFID Sled Reader

Bluetooth | 1D Barcode | 2D Barcode | UHF

This RFID Sled Reader features powerful UHF reading and writing (Impinj E710 chip), and barcode scanning with high sensitivity. You can attach mobile phone to this 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
	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 E710
Antenna parameter	Circular Polarized Antenna (4dBic)
Frequency	920-925 MHz / 902-928 MHz / 865-868 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Power	1 W (30 dBm, support +5~+30 dBm adjustable)
	2 W Optional (33 dBm, 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.