# TAKAME RSA1
RFID Sled Reader

Bluetooth     1D Barcode     2D Barcode     UHF

RFID Sled Reader RSA1 features powerful UHF reading and writing (Impinj E710 / R2000 chip), and barcode scanning with high sensitivity. You can attach mobile phone to RSA1 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 |

## 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 10m (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. |

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