

Eagle



The Eagle mobile reader offers a powerful RAIN RFID (UHF) module up to **30dBm** (adjustable from 1 to 30dBm) and 1D/2D barcode scanner.

This easy-to-use device communicates with any mobile device or computer in BLE 5.0 **Bluetooth** communication.

Thanks to its long lasting battery it can be used continuously with RAIN RFID (UHF) reading up to 6 hours!

The device is perfectly adapted to inventory management, asset management, inspection etc.

Key features

- Ultra-Long Standby
- RAIN RFID (UHF) Reading
- Easy-to-use RFID reader

Applications

- Inventory management
- Asset management
- Inspection
- ...

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Non-contractual datasheet

General specifications

Dimensions	282x117.5x32mm
Weight	334g (with battery)
Colour	White
Material	Plastic
Keypad	PWR button (side), up, down, return, ok, SCAN button (front)
Battery	5200mAh 4.35V Standby: over 70 hours (keeping bluetooth connected) Continuous use: up to 6 hours in RAIN RFID reading (UHF) Charging time: 3-4 hours (with standard adaptor and USB cable)
Display	1.77 inch, 128X160 pixels
Indicator LED	Power, Work, Bluetooth
Buzzer	Support
Interfaces	USB Type-C

Performance

MCU	Cortex-M3 72MHz Storage: 50 000 tags
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User Environnement

Operating temperature	-20°C to +50°C
Storage temperature	-40°C to +70°C
Humidity	5% – 95% relative humidity, no condensation
Drop specification	Minimum 20 drops of 1.5m/4.9ft drops to concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.64ft falls at room temperature
ESD	±15KV air discharge, ±8KV conductive discharge

Wireless communication

Bluetooth	Bluetooth BLE 5.0
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Developing environment

SDK	Android / IOS / Windows
Tool	Android Studio / Xcode
Language	Java / Objective-C

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Data collection

UHF

Engine	CM710-1 module based on Impinj E710
Antenna	Linear Polarized antenna (4dBi)
Frequency	865-868MHz/902-928MHz
Module power	1W (30dBm, support +1 to +30dBm adjustable)
Maximum read range	26m (Impinj MR6 tag, size 70 x 15mm) 27m (Impinj M750 tag, size 70 x 15mm) 31m (Alien H3 Anti-Metal tag, size 130 x 42mm)
Fastest read rate	900tags/s

Barcode Scanning

2D Imager Scanner	SE2707
1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbolologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: USPostNet, USPlanet, UKPostal, AustralianPostal, Japan Postal, Dutch Postal (KIX), etc.

Reference

EAGUHF2291	Mobile reader Eagle UHF, CM710 module, BT, SE2707 1D/2D, EU
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