

RFR-RAIN-1-HANDHELD

HANDHELD READER

The new mobile UHF RFID reader from RFRain provides customers with high performance reading for fast and efficient warehouse and in-store inventory management.



Key Features & Benefits

- True plug and play. Control the handheld reader with the Zone Manager Mobile on the handheld itself. No app to install and no programming required. Works on iPhone and Android.
- iOS and Android compatible.
- Store the data directly on the handheld reader.
- Automatically sync up the Zone Manager Enterprise server in the cloud, or sync the data when connection to the cloud becomes available.
- 12,000 mAh Li-ION battery for long-lasting performance up to 5 hours of continued usage and an average use rate of 10 hours.
- Reading up to 30 ft or more.
- High gain custom antenna design. Never miss a tag.
- Control the reader using the easy to use RFRain API.

Applications

- Inventory Management
- Warehousing
- Asset Tracking Library
- Retail
- Management
- Conveyor Belts

OVERVIEW

The RFRain Handheld Reader (RFR-RAIN-1-HANDHELD) covers a tag read distance up to 30 feet or more with antenna gain of 7.5 dB. Access and control the handheld reader using the Zone Manager Mobile software on your iPhone, Android or preferred handheld application. There is no app to install and run. Simply access the Zone Manager software from your preferred browser. Sync the data automatically to the Zone Manager enterprise cloud or store the data until the communication to the cloud becomes available. You can also retrieve the data from a csv file directly from a laptop. Inventory management for warehouse and retail applications, port container tracking, intelligent sorting of assembly line products and so on.



DATA/CONTROL INTERFACE

Communication	WiFi / Cellular via a hot spot
Communication Protocol	RFRain Rest API Interface
Software	RFR-ZM-MOBILE application communicates directly with Zone Manager Enterprise cloud or stores data on the reader
RSSI	Yes
Modes of operation	Server Mode
Location	Select location of scan
Temperature Monitoring	Automatic shutdown
Brown-out Recovery	Yes
Live Upgrade Capability	Yes

RF INTERFACE

Regulatory	Supports different regions based on the order number. Please refer to the order information below
Tag Protocol	EPC-global UHF Class 1 Gen 2 (ISO 18000-6C) with anti-collision, DRM, and advanced anti-jamming
Antenna	7.5 dBi circularly polarized antenna
RF Power Output	Separate read and write levels, value is adjustable from 5 dBm to 31.5 dBm power up to (1.4 W) per channel or the maximum that the region allows whichever is less

ARCHITECTURE

RFID Processor	Indy R2000
Storage	64 GB or more Extended Flash

POWER

Battery	12,000 mAh rechargeable lithium-ion battery Lasts up to 10 hours. Charging time: ≥ 3 hours
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PHYSICAL

Dimensions	6.6" x 3.7" x 1.9" / 16.7 x 9.3 x 4.8 cm
Weight	2.1 lb / 1 kg
Interface	Wireless/Wifi
LED	Power Switch LED
Enclosure Material	Plastic
Mount Type	Quad Lock support for iPhone or Android

ENVIRONMENT

Certification	FCC 47 CFR Ch. 1 part 15 Industrie Canada RSS-21 0 ETSI EN 302 208 v3.1.1 (RED 2014/53/EU)
Operating Temp.	0°C to +60°C
Storage Temp.	0°C to +60°C
Sealing	IP67 rating

PERFORMANCE

Max Tag Read Rate	Up to 750 tags/second
Max Tag Read Distance	Up to 30+ feet (9 m)

OPTIONAL FEATURES

Software	Zone Manager, Zone Manager Mobile, Zone Manager Mobile App
Order Information	Based on the reader prefix RFR-RAIN-1-HANDHELD-XX, pre-configured for the following regions: XX: CE: European Frequency 865-868 MHz NA: North American Frequency 902-928 MHz KO: Korean Frequency 908.5-914 MHz AU: Australian Frequency 915-928 MHz CH: Chinese Frequency 915-928 MHz