iRFID500

Zone 1 & 2 Intrinsically Safe Bluetooth RAIN RFID Reader

Features

- **RAIN (UHF EPC Class1 Gen2, ISO 18000-63) Compliant**
- **USB and Bluetooth communication**
- **SPP and HID Bluetooth profiles**
- **Integrated linear polarized antenna**
- **Small, lightweight and ergonomic form factor**
- **Battery powered**
- **LCD Display**
- **Vibration feedback**
- **Intrinsically safe Zone 1 and 2**
- **Certifications (hazardous area version only):**
  Ex II 1 GD, Ex ia IIC T4 Ga, Ex ia IIIC T135 Da
  Ex I M1 Ex ia I Ma
  US&Canada MET Class I ,II, III Div 1, Groups A-G
- **IP65 Fully ruggedized**

Applications

- **Oil & Gas**
- **Asset tracking**
- **Marine**
- **Energy**
- **Chemical**
- **Offshore**

General Info

The iRFID500 is an intrinsically safe handheld RAIN RFID Reader, designed for use in hazardous areas and harsh environments such as offshore, marine, chemical and industrial environments. The device is certified for use in ATEX and IECEx Zones 1, 2, 21 and 22.

Developed in partnership with Extronics, the iRFID500 has been created to work seamlessly with smartphones, tablets, and other Windows/Android devices to give a greater range of functionality. The iRFID500 is invaluable for supporting operations such as inventory management, tracking and tracing, maintenance planning and regulatory compliance.

Lightweight and ergonomic, iRFID500 is easy to use with one hand. The stylus nib means you can even operate a connected tablet whilst wearing gloves, avoiding unnecessary time wasting and helping you work more productively.

Large internal memory means the iRFID500 can be used in conjunction with smartphone or as a standalone device giving you greater efficiency and flexibility of usage.

Successful tag reading is indicated on the LCD display as well as by vibration and a buzzer sound ensuring accurate reads.

Battery life of 12 hours whilst being used for thousands of tag reads means that IR500 is a viable accompaniment for workers during long shift.

easy2read© product line

The easy2read© product family constitutes a complete and reliable product line of RAIN RFID readers for any Auto-ID need. A reading range from a few centimetres up to 7-8 metres distance makes the easy2read© family suitable for applications such as access control, RFID gates, desktop reading or OEM modules for integration into handheld or printer devices.

- ● Embedded Readers
- ● Mobile Readers
- ● Integrated Readers
- ● Fixed Readers
- ● Temperature Loggers

Technical Specifications Table

Frequency Range	− 865.600÷867.600 MHz (ETSI EN 302 208 v3.1.1) − 902÷928 MHz (FCC part 15.247)
RF Power	Programmable in 14 levels from 5 dBm ERP (3mW ERP) to 22 dBm ERP (150mW ERP)
Antenna	Integrated linear (horizontal)
Standard Compliance	EPC C1 G2 / ISO18000-63
Read Range	Up to 90 cm /tag dependent
Bluetooth	Class 2 Bluetooth 2.1 + EDR, 10m range
Memory Capacity	48K – 4096 EPC Codes
User Interface	Button #1: ON/OFF Button #2: Trigger Led #1: power indication and battery status (green : high; red:low) Led #2: communication activity (blue: Bluetooth; orange: USB) Buzzer: bi tonal for events signalling Vibration: for events signalling Display: LCD Alphanumeric (8 chars x 2 lines)
OS Compatibility	Windows, Android, HID Profile and SPP, Virtual Com Port
Battery Life Operating	> 12h with 40'000 tag readings; Standby: > 15 days
Battery Charging Time	2h (typical)
IP Rating	IP65
Dimensions	(W)59 x (L)128 x (H)22 mm^3
Operating Temp.	-20 °C to +55°C
Weight	150g

Ordering Options

Code	Description
1MIRFID50EHP	iRFID500 IP65 HID Keyfob UHF RFID Reader (ETSI)
1MIRFID50EHT	iRFID500 ATEX HID Keyfob UHF RFID Reader (ETSI)
1MIRFID50UHP	iRFID500 IP65 HID Keyfob UHF RFID Reader (FCC)
1MIRFID50UHT	iRFID500 ATEX HID Keyfob UHF RFID Reader (FCC)

Accessories

1MIRFID500UC	iRFID500 ATEX USB Charger and Data Cable