R CAENRFID

R1307I

fIDo

RAIN RFID Sled Reader

IMPINJ CONNECTED

BENEFITS	High Performance reading	Flexible	USB Type C	HID	Bluetooth	Wireless charge

Features

- *RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant*
- *ETSI and FCC versions available*
- *Bluetooth/BLE communication*
- *Integrated circular polarized antenna*
- *Ergonomic form factor*
- *Battery powered*
- *iPhone/iPad compatibility*
- *SP-Connect™ universal mounting for smartphones*
- *Embedded smartphone wireless charger*
- *Optional barcode scanner*

Applications

- *RAIN RFID add-on to smartphones, tablets and mobile terminals*
- *Shop inventory and cycle counting*
- *Asset tracking*
- *Warehouse management*
- *Mobile workers*

Overview

fIDo (Model R1307IE, R1307IU) is a RAIN RFID sled reader of the easy2read© product line with integrated antenna for long range applications.

The reader hosts an internal rechargeable battery and can operate both in wired mode, using a USB cable, or in wireless mode through the BLE/ Bluetooth® interface.

Thanks to the Bluetooth® communication interface, the **fIDo** is a perfect add-on for any Bluetooth® enabled host such as a PC, a smartphone, a PDA or a tablet for RAIN RFID readings. The reader is compatible with Windows 8/10, Windows CE/Mobile, Android and iOS operating systems.

The device supports both Bluetooth Low Energy (BLE) and Bluetooth classic communication to provide the maximum usage flexibility, including the HID profile for keyboard emulation.

fIDo integrate a SP-Connect SPC+ mounting adapter to easily fix a wide range of smartphones with dedicated phone cases. It also embeds a wireless charging transmitter to charge the smartphone without the need to detach it from the reader.

fIDo is ideal for inventory management, mobile workers, service and maintenance applications, asset tracking and many other AutoID applications.

The radio frequency core of the reader is based on the **Impinj E710** IC that permits to achieve fast reading speed and to be used in dense reader and dense tag environments for top-class rated performances.

Technical Specification Table

Frequency Range	• 865.600÷867.600 MHz (ETSI EN 302 208 v. 3.3.1) (Mod. R1307IE) • 902÷928 MHz (FCC part 15.247) (Mod. R1307IU)
RF Power	• Configurable from 11 dBm ERP to 28 dBm ERP (Mod. R1307IE) • Configurable from 13 dBm EIRP to 30 dBm EIRP (Mod. R1307IU)
RX Sensitivity	• -85 dBm - 10%PER, assuming 20 dB antenna RL @ 30 dBm output
Number of Channels	• 4 channels (compliant to ETSI EN 302 208 v. 3.3.1) (Mod. R1307IE) • 50 hopping channels (compliant to FCC part 15.247) (Mod. R1307IU)
Standard Compliance	EPC Class 1 Gen 2 - ISO18000-63
Antenna Gain	3.0 dBic (typical)
Antenna Polarization	Integrated Circular Polarized Antenna
Read Range	Up to 5.0 m (Typical)
USB Interface	USB 2.0 Full Speed (12 Mbit/s) via USB Type-C connector
Bluetooth Interface	• Bluetooth 4.2 Smart Ready compliant • 11 dBm EIRP output power BR • 5 dBm EIRP output power EDR • 7 dBm EIRP output power BLE • HID and Serial over GATT (BLE) • HID and SPP profiles (Bluetooth classic)
User Interface	• Power and Trigger buttons • Power and battery status LED • Communication and operation result LED • Bi-tonal buzzer and vibration element for event signaling
Battery Type	Li-Ion 3.7 V, 5,200 mAh
Battery Life	• Operating: > 12 h (with 100,000 tag readings) • Standby: > 50 days (powered off, no LED blinking)
Battery Charging Time	• 4 hours 15 min. with 2 A AC/DC power supply
IP Rating	IP65
Dimensions	• 151 x 150 x 72 mm³ • 5.9 x 5.9 x 2.8 inches³
Operating Temperature	-10 °C to +55 °C
Weight	TBD g
USB Cable Length	1.5 m

Ordering Options

WR1307IXEUAA	fIDo - RAIN RFID sled reader - ETSI		
WR1307IXUSAA	fIDo - RAIN RFID sled reader - FCC		