

qIDmini - R1170I

Keyfob Bluetooth RAIN RFID Reader



Features

- RAIN RFID (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
- iPhone/iPad compatibility
- Also available with Near Field antenna, optimized for Murata MAGICSTRAP® and HITACHI USPT miniaturized

Applications

- UHF add-on to Bluetooth devices
- Point of Sales
- Field Sales Mobility
- People Access Control
- Inventory Management
- Service and Maintenance

Overview

The **qIDmini** (Model R1170I) is a RAIN RFID handheld reader of the easy2read® product line, compliant with ISO 18000-63/EPC C1G2 standards.

The **qIDmini** has an integrated antenna suited for short to medium range applications and, thanks to the Bluetooth® communication interface, it is a perfect RAIN RFID add-on for any Bluetooth® enabled host such as a PC, a smartphone, a PDA or a tablet. The reader is compatible with Windows 8/10, Windows CE/Mobile, Android, iPhone and iPad.

The HID version supports native keyboard emulation allowing to interact directly with legacy applications, office automation SW or any other generic solution requiring manual input.

The **qIDminiNF** version is specifically designed to optimize the reading performances with near field miniaturized tags like the Murata Magicstrap and Hitachi USPT. The near field antenna of the **qIDminiNF** reader permits to read those small tags even when embedded in small parts like watches, jewels or mechanic parts. For this reason, the combination of the miniaturized near field tags and the **qIDminiNF** reader is a great tool to retrieve the serial numbers in small objects and check the originality of parts.

The reader can also operate in "Batch Mode", allowing to store EPC codes into the internal memory when the communication links (USB or Bluetooth®) are not available.

When paired to a smartphone or a tablet, the **qIDmini** is a cost effective alternative to more expensive handheld devices.



Technical Specification Table

Frequency Range	- 865.600÷867.600 MHz (ETSI EN 302 208 v. 3.1.1) - Mod. R1170IEHIDP, R1170IEAPLP and R1170IENFHD - 902÷928 MHz (FCC part 15.247) - Mod. R1170IUHIDP, R1170IUAPLP and R1170IUNFHD - 920.625÷924.375 MHz (SRRC RFID national standards) - Mod. R1170IUNFHD with WPE1170NFACN - 920.4÷923.4 MHz (ARIB T107 RFID national standards) - Mod. R1170IJHIDP and R1170IJAPLP
RF Power	- 18 levels: 5dBm ERP (3mW ERP) to 22dBm ERP (150mW ERP) - Mod. R1170IEHIDP and R1170IEAPLP - 13 levels: 5dBm ERP (3mW ERP) to 18dBm ERP (60mW ERP) - Mod. R1170IUHIDP and R1170IUAPLP - 18 levels: -8dBm ERP (0,16mW ERP) to 9dBm ERP (8mW ERP) - Mod. R1170IENFHD and R1170IUNFHD - 14 levels: 5dBm ERP (3mW e.r.p.) to 19dBm ERP (80mW e.r.p.) - Mod. R1170IJHIDP and R1170IJAPLP
Antenna	- Integrated linear (horizontal) (Mod. R1170IEHIDP, R1170IEAPLP, R1170IUHIDP, R1170IUAPLP, R1170IJHIDP and R1170IJAPLP) - Integrated UHF Near Field Antenna (Mod. R1170IENFHD and R1170IUNFHD)
Number of Channels	- 4 channels (ETSI EN 302 208 v. 3.1.1) - Mod. R1170IEHIDP, R1170IEAPLP and R1170IENFHD - 50 hopping channels (FCC part 15.247) - Mod. R1170IUHIDP, R1170IUAPLP and R1170IUNFHD - 16 hopping channels (SRRC RFID national standards) - Mod. R1170IUNFHD with WPE1170NFACN - 16 hopping channels, LBT (ARIB T107 RFID national standards) - Mod. R1170IJHIDP and R1170IJAPLP
Standard Compliance	EPC Class 1 Gen 2 - ISO18000-63
Read Range	Up to 90 cm. (Typical) - Mod. R1170IEHIDP, R1170IEAPLP, R1170IUHIDP, R1170IUAPLP, R1170IJHIDP and R1170IJAPLP
Connectivity	- USB Interface: USB 2.0 Full Speed (12 Mbit/s) device port - Bluetooth: Interface: Class 2 with output power 4dBm EIRP - Virtual COM port parameters: Baudrate up to 230.400kbps, 8 Databits, 1 Stopbit, no parity, no flow control - HID profile versions: Mod. R1170IEHIDP, R1170IUHIDP, R1170IJHIDP - Apple iOS iAP protocol versions: Mod. R1170IEAPLP, R1170IUAPLP, R1170IJAPLP
User Interface	- Power and Trigger buttons - Power and Battery Level LED (Green: High, Red: Low) - Communication Activity LED (Blue: Bluetooth, Orange: USB) - Bi-tonal buzzer and Vibration element for events signaling - Alphanumeric LCD Display (8 columns x 2 lines)
Internal Buffer Size	48 kBytes (enough to store 4096 EPC codes@96bit)
Battery Type	Li-Ion 3.7V, 570mAh
Battery Life	Operating: > 12H with 40,000 tag readings - Standby: > 15 days
Battery Charging Time	2H Typical
IP Rating	- IP 32 (Mod. R1170IEHIDP, R1170IEAPLP, R1170IUHIDP, R1170IUAPLP, R1170IJHIDP and R1170IJAPLP) - IP 30 (Mod. R1170IENFHD and R1170IUNFHD)
Dimensions	(W)99 x (L)54 x (H)20 mm ³ max. (3.9 x 2.1 x 0.8 inches ³)
USB Cable Length	1.5 mt.
Operating Temperature	-10°C to +55°C
Weight	- 57 g (Mod. R1170IEHIDP, R1170IEAPLP, R1170IUHIDP, R1170IUAPLP, R1170IJHIDP and R1170IJAPLP) - 58 g (Mod. R1170IENFHD and R1170IUNFHD)

Ordering Options

WR1170IEAPLP	qIDmini - ETSI with Apple profile	WR1170IUNFHP	qIDmini - FCC NF with HD profile
WR1170IEHIDP	qIDmini - ETSI with HID profile	WPE1170NFACN	R1170IUNHHP - China customization
WR1170IUAPLP	qIDmini - FCC with Apple profile	WR1170IJHIDP	qIDmini - ARIB with HID profile
WR1170IUHIDP	qIDmini - FCC with HID profile	WR1170IJAPLP	qIDmini - ARIB with Apple profile
WR1170IENFHP	qIDmini - ETSI NF with HID profile		