qIDmini - R1170I

Keyfob 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**
- **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**

General Info

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 XP/7, 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.

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.

Technical Specifications 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 OPT.WPE1170NFACN) – 920.4÷923.4 MHz (ARIB T107 RFID national standards) (Mod. R1170IJHIDP and R1170IJAPLP)
RF Power	– Programmable in 18 levels from 5 dBm ERP (3mW ERP) to 22 dBm ERP (150mW ERP) (Mod. R1170IEHIDP and R1170IEAPLP) – Programmable in 13 levels from 5dBm ERP (3mW ERP) to 18dBm ERP (60mW ERP)(Mod. R1170IUHIDP and R1170IUAPLP) – Programmable in 18 levels from -8 dBm ERP (0,16mW ERP) to 9 dBm ERP (8mW ERP)(Mod. R1170IENFHD and R1170IUNFHD) – Programmable in 14 levels from 5dBm e.r.p. (3mW e.r.p.) to 19dBm e.r.p. (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 (compliant to ETSI EN 302 208 v. 3.1.1) (Mod. R1170IEHIDP, R1170IEAPLP and R1170IENFHD) – 50 hopping channels (compliant to FCC part 15.247) (Mod. R1170IUHIDP, R1170IUAPLP and R1170IUNFHD) – 16 hopping channels (compliant to SRRC RFID national standards) (Mod. R1170IUNFHD with OPT. WPE1170NFACN) – 16 hopping channels with LBT (compliant to ARIB T107 RFID national standards) (Mod. R1170IJHIDP and R1170IJAPLP)
Standard Compliance	EPC C1G2 / ISO 18000-63
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 – Databits: 8 – Stopbits: 1 – Parity: none – Flow control: none HID profile versions: mod. mod. R1170IEHIDP, R1170IUHIDP, R1170IJHIDP Apple iOS iAP protocol versions: mod. R1170IEAPLP, R1170IUAPLP, R1170IJAPLP
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)
Internal Buffer Size	48kByte (equivalent to 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 inch^3)
Length of USB Cable	1.5 m
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

Code	Description
WR1170IEAPLP	R1170IEAPLP - qIDmini Keyfob Bluetooth UHF RFID Reader (ETSI) with Apple profile
WR1170IEHIDP	R1170IEHIDP - qIDmini Keyfob Bluetooth UHF RFID Reader (ETSI) with HID profile
WR1170IUAPLP	R1170IUAPLP - qIDmini Keyfob Bluetooth UHF RFID Reader (FCC) with Apple profile
WR1170IUHIDP	R1170IUHIDP - qIDmini Keyfob Bluetooth UHF RFID Reader (FCC) with HID profile
WR1170IENFHP	R1170IENFHD - qIDmini Keyfob Bluetooth UHF NF RFID Reader (ETSI) with HID profile
WR1170IUNFHP	R1170IUNFHD - qIDmini Keyfob Bluetooth UHF NF RFID Reader (FCC) with HID profile
WPE1170NFACN	R1170IUNFHP - China - Customization
WR1170IJHIDP	R1170IJHIDP - qIDmini - Keyfob Bluetooth UHF RFID Reader (ARIB) with HID profile
WR1170IJAPLP	R1170IJAPLP - qIDmini - Keyfob Bluetooth UHF RFID Reader (ARIB) with Apple profile