



R1170I

Keyfob Bluetooth UHF RFID Reader



UHF RFID technology
in your hand



Features

- EPC C1 G2, ISO 18000-6C 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 tags.

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 handheld reader of the easy2read® product family, compliant with UHF RFID ISO 18000-6C/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 UHF 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 application, 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.

Designed for mobile operators in indoor or outdoor areas, the qIDmini is ideal for in-store inventory management, field sales mobility, service and maintenance applications.



easy2read® Family
 The easy2read® family constitutes a complete and reliable product line of 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, UHF gates, desktop reading or OEM modules for integration into handheld or printer devices.

- OEM Readers
 - Fixed Readers
 - Desktop Readers
- easy2read®**

Technical Specifications Table

Frequency Range	– 865.600÷867.600 MHz (ETSI EN 302 208 v. 1.4.1) (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)
RF Power	– Programmable in 18 levels from 5dBm e.r.p. (3mW e.r.p.) to 22dBm e.r.p. (150mW e.r.p.) (Mod. R1170IEHIDP, R1170IEAPLP, R1170IUHIDP and R1170IUAPLP) – Programmable in 18 levels from -8dBm e.r.p. (0.16mW e.r.p.) to 9dBm e.r.p. (8mW e.r.p.) (Mod. R1170IENFHD and R1170IUNFHD)
Antenna	– Integrated linear (horizontal)(Mod. R1170IEHIDP, R1170IEAPLP, R1170IUHIDP and R1170IUAPLP) – Integrated UHF Near Field Antenna (Mod. R1170IENFHD and R1170IUNFHD)
Number of Channels	– 4 channels (compliant to ETSI EN 302 208 v. 1.4.1.)(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).
Standard Compliance	ISO 18000-6C/EPC C1G2
Read Range	up to 90cm (typical) (Mod. R1170IEHIDP, R1170IEAPLP, R1170IUHIDP and R1170IUAPLP)
Connectivity	USB Interface: USB 2.0 Full Speed (12 Mbit/s) device port Bluetooth Interface: Class 2 with output power 4dBm e.i.r.p. Virtual COM port parameters: - Baudrate: up to 230.400kbps - Databits: 8 - Stopbits: 1 - Parity: none - Flow control: none HID profile available (mod. R1170IEHIDP and R1170IUHIDP) Apple compatibility available (mod. R1170IEAPLP and R1170IUAPLP)
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: bitonal 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) (TBC)
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 and R1170IUAPLP) – 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 Temp.	-10 °C to +55 °C
Weight	– 57 g (Mod. R1170IEHIDP, R1170IEAPLP, R1170IUHIDP and R1170IUAPLP) – 58 g (Mod. R1170IENFHD and R1170IUNFHD)

Ordering Options

Code	Description
Reader	
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	R1170IENFHP - qIDmini - Keyfob Bluetooth UHF NF RFID Reader (ETSI) with HID profile
WR1170IUNFHP	R1170IUNFHP - qIDmini - Keyfob Bluetooth UHF NF RFID Reader (FCC) with HID profile
WPE1170NFACN	R1170IUNFHP - China - Customization
Development Kit	
WR1170IDKEAP	R1170IDKEAP - Development kit with qIDmini - R1170I Reader (ETSI with Apple profile) and demo tags
WR1170IDKEHI	R1170IDKEHI - Development kit with qIDmini - R1170I Reader (ETSI with HID profile) and demo tags
WR1170IDKUAP	R1170IDKUA - Development kit with qIDmini - R1170I Reader (FCC with Apple profile) and demo tags
WR1170IDKUHI	R1170IDKUHI - Development kit with qIDmini - R1170I Reader (FCC with HID profile) and demo tags



CAEN RFID S.r.L. - Via Vetraia, 11 - 55049 Viareggio - Italy
 Tel- +39.0584.388.398 - Fax +39.0584.388.959 - info@caenrfid.com - www.caenrfid.com

For more information, visit our web site:
www.caenrfid.com

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