



**NEW**



## Hex - R1290I

Multipurpose RAIN RFID  
Reader with PoE

### Features

- RAIN (UHF - EPC Class1 Gen2, ISO 18000-63) Compliant
- USB and Ethernet communication
- HID on USB
- Integrated circular polarized antenna and external antenna connector
- Versatile form factor
- PoE or external power supply
- USB host port
- OLED display and keypad

### Applications

- Point of Sales
- Encoding Stations
- Access Control
- Inventory Management
- Document Tracking

### General Info

The Hex (Model R1290I), multipurpose reader of the easy2read® product line, is a RAIN RFID reader with integrated circular polarized antenna for short to medium range applications.

Thanks to its versatile form factor, the Hex is well suited for both desktop/counter top applications and for fixed reading point installations. It offers Ethernet (PoE) and USB communication interface in order to simplify the installation on both large and single installations. The Power over Ethernet capability permits to provide power and to communicate with the reader with a single cable when the PoE infrastructure is available.

In addition to the internal circular polarized antenna, the Hex provides a connector for an external antenna in order to extend the reading area of the reader and a set of GPIO lines that permits to control external devices like lights or alarms or to get triggers via external sensors (buttons, light barriers).

The USB host port, combined with the internal computing architecture, permits to connect USB peripherals like barcode scanners, keyboards, printers and many other devices transforming the Hex reader in a powerful and versatile identification platform.

The reader has an easy to use display and keypad interface for local configuration; the behaviour of the keypad and display can be customized using the internal scripting engine to accomplish customer needs.

The Hex is available both for European and US regions allowing installations in various countries worldwide as needed by retailers, forwarders, warehouses and other global organizations.



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

## easy2read<sup>®</sup> product line

The easy2read<sup>®</sup> 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<sup>®</sup> 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

<b>Frequency Range</b>	– 865.600÷867.600 MHz (ETSI EN 302 208 v3.1.1) (Mod. R1290IE) – 902÷928 MHz (FCC part 15.247) (Mod. R1290IU)
<b>RF Power</b>	– Programmable in 18 levels (1dB step) from 8 dBm ERP to 25 dBm ERP (Mod. R1290IE) – Programmable in 18 levels (1dB step) from 8,5 dBm ERP to 25,5 dBm ERP (Mod. R1290IU)
<b>Internal Antenna Gain</b>	– 0,2dBi typ. (Mod. R1290IE) – 0,7dBi typ. (Mod. R1290IU)
<b>Internal Antenna Polarization</b>	Circular
<b>Number of Channels</b>	– 4 channels (compliant to ETSI EN 302 208 v3.1.1) (Mod. R1290IE) – 50 hopping channels (compliant to FCC part 15.247) (Mod. R1290IU)
<b>Standard Compliance</b>	EPC C1 G2 / ISO18000-63
<b>USB Device Interface</b>	USB 2.0 Hi-Speed (480 Mbit/s) device port Virtual COM port parameters: – Baudrate: up to 115200 kbps – Databits: 8 – Stopbits: 1 – Parity: none – Flow control: none
<b>Ethernet Interface</b>	Ethernet 10/100/1000BASE-T (RJ45) PoE standard IEEE 802.3af
<b>User Interface</b>	Button ✓: OK Arrow up: scroll up Arrow down: scroll down  Led #1: power indication (green: ON) Led #2: RF activity (yellow blinking: RF) Led #3: Tag-Identification (red blinking: TAG-ID) Led #Antenna: Tag-Identification (white blinking: TAG-ID)  Buzzer: bi tonal for events signalling Proximity sensor: trigger  OLED display 2.42" monochromatic (white)
<b>USB Host Interface</b>	USB 2.0 High Speed Host Port (500mA max)
<b>I/O Interface</b>	Push in PCB terminals 1 digital Input 1 solid state photorelay output (500mA max)
<b>Electrical Power</b>	5V ± 5% - DC power supply (10W) PoE standard IEEE 802.3af (12,95W)
<b>IP Rating</b>	IP30
<b>Dimensions</b>	(W)220 x (L)170 x (H)25mm <sup>3</sup> (8.66 x 6.69 x 0.98 inch <sup>3</sup> )
<b>Operating Temperature</b>	-10°C to +55°C
<b>Weight</b>	475g

### Ordering Options

Code	Description
<b>WR1290IXEAAA</b>	R1290I Hex - Multipurpose UHF RFID Reader with PoE (ETSI)
<b>WR1290IXUAAA</b>	R1290I Hex - Multipurpose UHF RFID Reader with PoE (FCC)

### Accessories

<b>WALIM0000005</b>	ALIM.AC-DC 5V 2A Center Negative Auxiliary Power Supply
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