

# Quattro - R4321P

## Smart 4-port RAIN RFID Long Range Reader



### Features

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant
- Multiregional support
- Four 50 Ohm TNC-RP antenna connectors
- Power over Ethernet interface
- Up to 31.5 dBm (1.4W) output power
- Internal scripting engine
- USB host port
- PoE or external power supply

### Applications

- RAIN RFID portals for logistic
- Industrial automation reading points
- RAIN RFID tunnels
- Access control reading points
- Smart shelves and smart displays

### Overview

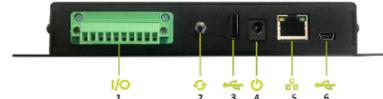
The **Quattro** (Model R4321P) is a compact long range RAIN RFID reader of the easy2read® product line, well suited for retail and warehousing installations.

The **Quattro** reader has 4 antenna ports capable of a 31.5 dBm maximum power enabling to build RAIN RFID portals for long range reading. Its slim form factor makes it easy to install even when limited space is available. It offers the Ethernet (PoE) and USB communication interface in order to simplify the installation both on large and single read point solutions. The Power over Ethernet capability permits to provide power and to communicate with the reader with a single cable.

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

The **Quattro** is based upon an embedded Linux platform and it's easily configurable using an internal web interface. System integrators can customize the behavior of the reader installing Java code that, having access to all the RFID features and interfaces, permits a full customization.

The **Quattro** reader complies with and can operate in both European and US regulatory environments and, due to its multiregional capabilities, it's ideal for integration in solutions requiring compliance to different geographical regions.



### Technical Specification Table

<b>Frequency Range</b>	- 865.600÷867.600 MHz (ETSI EN 302 208 v. 3.1.1) - 902÷928 MHz (FCC part 15.247)
<b>RF Power</b>	- Up to 31.5 dBm (1.4W) conducted (ETSI) - Up to 30 dBm (1W) conducted (FCC)
<b>Number of Channels</b>	- 4 channels (compliant to ETSI EN 302 208 v. 3.1.1) - 50 hopping channels (compliant to FCC part 15.247)
<b>Standard Compliance</b>	EPC Class 1 Gen 2 - ISO18000-63
<b>CPU</b>	ARM9 @ 400MHz on Atmel AT91SAM9G25
<b>Operating System</b>	Linux
<b>Receiving Capability</b>	- Gen 2 Dense Reader Mode Management - Data rate up to 400kb/s
<b>Connectivity</b>	- USB Interface: USB 2.0 High Speed (480 Mbit/s) device port (USB mini connector) - Virtual COM port parameters: - Baudrate up to 115.200kbps - Databits: 8 - Stopbit: 1 - Parity: none - Flow control: none - Ethernet 10/100/1000Base-T (RJ45) - PoE standard IEEE 802.3af
<b>I/O Interface</b>	- 10 Poles Terminal Block with screw connector - 2 digital inputs optically isolated - 2 solid state photorelay outputs optically isolated (500mA max)
<b>Antenna Connectors</b>	4 TNC Reverse Polarity
<b>Power Supply</b>	- 5V DC power supply (12W) - PoE standard IEEE 802.3af (12.95W)
<b>Status Indicators</b>	Multicolour LEDs: Power, Activity, Status and Applications
<b>IP Rating</b>	IP 30
<b>Dimensions</b>	- (W)210 x (L)140 x (H)27 mm <sup>3</sup> - 8.27 x 5.51 x 1.06 inches <sup>3</sup>
<b>Operating Temperature</b>	-10°C to +55°C
<b>Weight</b>	740 g.

### Ordering Options

<b>WR4321PXAAAA</b>	Quattro - Smart Long Range Reader		
<b>WR4321PXDKEU</b>	Quattro - ETSI Dev. Kit		
<b>WR4321PXDKUS</b>	Quattro - FCC Dev. Kit		
<b>WALIM0000005</b>	Quattro power supply		