COMING SOON

Proton - R4320P

Compact 4-port Long Range RAIN RFID Reader

Features

- **RAIN (UHF EPC Class1 Gen 2 ISO 18000-63) Compliant**
- **Multiregional support**
- **Four 50 Ohm TNC-RP antenna connectors**
- **Power over Ethernet interface**
- **Up to 31.5 dBm (1.4 W) output power**
- **Internal scripting engine**
- **IP65 in compact form factor**
- **M12 industrial connectors**

Applications

- **RAIN RFID portal for logistic**
- **Industrial automation reading points**
- **RAIN RFID tunnels**
- **Access control reading points**

General Info

The Proton (Model R4320P) is a rugged long range RAIN RFID reader of the easy2read© product line, well suited for industrial environment installations.

The Proton reader has 4 antenna ports capable of a 31.5 dBm maximum power enabling to build RAIN RFID portals for logistic. Its compact form factor makes it easy to install and the IP65 protection permits outdoor or harsh environment installations. Featuring Power Over Ethernet, RS232 and GPIOs via industry standard M12 connectors the Proton is an ideal choice for industrial automation and Industry 4.0 solutions.

The Proton 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 Proton 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 devices requiring compliance to different geographical regions.

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

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 v3.1.1) – 902÷928 MHz (FCC part 15.247)
RF Power	– Up to 31 dBm (1.25W) conducted (ETSI) – Up to 30 dBm (1W) conducted (FCC)
Number of Channels	– 4 channels (compliant to ETSI EN 302 208 v3.1.1) – 50 hopping channels (compliant to FCC part 15.247
Standard Compliance	EPC C1 G2 / ISO18000-63
CPU	ARM9 @ 400Mhz on Atmel AT91SAM9G25
Operating system	Linux
Receiving Capability	Gen 2 Dense Reader Mode Management Data rate up to 400 Kb/s
Connectivity	RS232 Serial Communication (M12 connector) Ethernet 10/100/1000BASE-T (M12 connector) PoE standard IEEE 802.3af
I/O Interface	M12 connector 2 digital inputs optically isolated 2 solid state photorelay outputs optically isolated (500mA max)
Antenna Connectors	4 TNC Reverse Polarity
Electrical Power	9÷36 DC power supply (12W) PoE standard IEEE 802 3af (12,95W)
Visual Status Indicators	Multicolor LEDs: Power, Activity, Status and Applications
Operating Temperature	-10°C to +55°C
IP Rating	IP65
Dimensions	(W)131 x(L)106 x (H)50 mm^3 5.15 x 4.17 x 1.96 $inch^3$
Weight	500 g