

ion R4300P
UHF Long Range Reader with GPRS

The first UHF RFID
portal reader with
embedded GPRS



Features

- **Multi-Regional Support**
 - ETSI EN 302 208
 - FCC part 15
 - Australia, China, Korea, Japan, Singapore, Taiwan
- **Integrated GPRS modem (optional)**
- **EPC C1 G2, ISO 18000-6C Compliant**
- **USB 2.0 High Speed Host Port**
- **Internal MicroSD slot**

Applications

- **Vehicle access control systems**
- **Pick and put away applications**
- **Industrial control**
- **RFID tunnels**
- **Portal applications**
- **Point of sales devices (smart shelves, smart displays)**

General Info

The **ion** (Model R4300P), the new portal reader of the **easy2read**® Family, is optimized for portal applications featuring up to 4 antennas, network interfaces, GEN2 DRM management and high speed Gen2 read rates.

In addition to all these features, the R4300P allows data transfer via an integrated GPRS modem (optional).

The R4300P uses an INTEL® ATOM™ processor and combines the processing power of INTEL X86 architecture with the most advanced RFID performances.

The R4300P complies with and can operate in different regulatory environments (Europe, US, Australia, China, Korea, Japan, Singapore, Taiwan).

These features, together with its compact and versatile form factor, allow to use it in vehicle applications, on smart shelves or smart displays and in any worldwide installation requiring RFID usage in remote areas.



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.



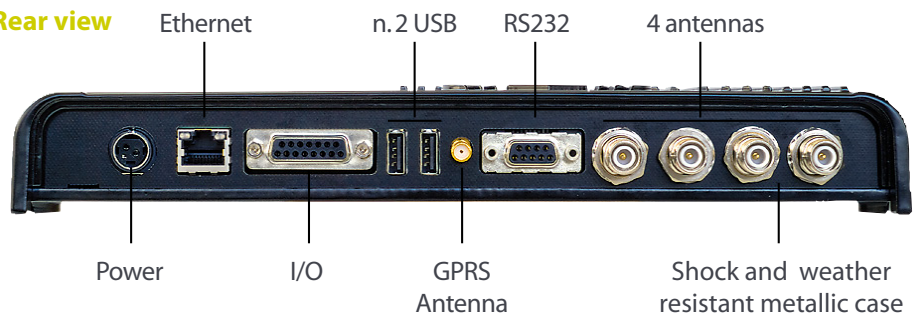
Ordering Options

WR4300PXAAA	R4300P - ION - RFID UHF Portal Reader
WR4300PXGPRS	R4300P - ION - RFID UHF Portal Reader with GPRS
Accessories	
WALIM000003	R4300P - auxiliary power supply
WANTENNAX005	Circular polarized 860 - 960 MHz antenna
WANTENNAX007	Linear polarized 860 - 970 MHz antenna
WCAV0AAAX005	TNC/RP-N antenna cable, insertion loss 0.32dB/m, length=5m
WCAV0AAAX006	TNC/RP-N antenna cable, insertion loss 0.32dB/m, length=15m

Technical Specifications Table

Frequency	902÷928 MHz (FCC part 15) 865.600÷867.600 MHz (ETSI EN 302 208) 952÷954 MHz (ARIB STD-T89)
Output Power	Up to 32 dBm (~1.6 W) conducted
CPU	Intel Atom Z510 CPU @ 1.1Ghz
Memory	512 Mbytes RAM, 512 Mbytes SSD, 2 Gb MicroSD
Operating System	Linux (Debian)
Scripting	- Python 2.5 language interpreter - Java Virtual Machine
Host Interface Protocols	- EPCGlobal LLRP RFID host-to-reader protocol - CAEN RFID host-to-reader protocol
Antenna Connectors	4 TNC Reverse Polarity
Receiving Capability	Gen 2 Dense Reader Mode Management Data rate up to 400 Kbits/s
Standard compliance	EPC C1 G2/ISO 18000-6C
Digital I/O	14 GPIO pins TTL level
Ports	RS232 Serial Communication (DB9); USB 2.0 High Speed Host Port; Ethernet 10/100BASE-T (RJ45)
Wireless Communication	GSM/GPRS (SMA) (optional) WiFi (optional via USB host)
Internal Interfaces	MicroSD slot SIM card housing (optional)
Dimensions	(W)275 x (L)155 x (H)39 mm ³ (10.8 x 6.1 x 1.5 inch ³)
Electrical Power	9-36 Vdc - 30 W
Operating Temperature	-20°C to +55°C
Weight	1.3 kg

Rear view



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

For more information, visit our web site:

www.caenrfid.it