

UHF Long Range Reader EPR - 4300

EPROJETECH.com



RFID - GPS - BIOMETRIC APPLICATIONS
ELECTRONIC SOLUTIONS

The Industrial RFID Terminal EPR-4300 has been designed to provide Long-Range Reading for UHF ISO18000-6 C tags and labels. This reader has an outstanding reading performance with distances of up to 10 m.

The first UHF RFID industrial reader with embedded GPRS

Applications:

- RFID tunnels
- Portal applications
- On vehicle installations
- Industrial control
- Access control systems
- Point of sales devices (smart shelves, smart displays)



OVERVIEW

The EPR4300 , is the top-of-the-range portal reader of the easy2read[®] Family. Reader has carefully designed the device taking into account customer requests and on-field experience on RFID installations. The result is not only an UHF reader, it's a unique combination of outstanding RFID reading performances, computing power and communication capabilities. The reader is optimized for portal installations, featuring full power to up to 4 antennas, GEN2 Dense Reader Mode management and high speed read rates. Based on an embedded HW architecture (x86) and standard operating system (Linux), the reader eases the development of custom software and solutions. The on-board computing power and connectivity remove the need for an external PC and related cabling. This results in deployment and operations cost savings, thus reducing the total cost of ownership of installed devices. The reader is best suited for complex AutoID scenarios, where the information can be collected and fed directly to the reader from multiple sources such as Smart Card readers

UHF Long Range Reader

EPR - 4300

EPROJETECH.com



RFID - GPS - BIOMETRIC APPLICATIONS
ELECTRONIC SOLUTIONS

Technical Data

Frequency Range	902-928 MHz (FCC part 15) 865.600-867.600 (ETSI EN 302 208)
RF Power	Up to 32 dBm (1.6W) conducted (ETSI) Up to 30 dBm (1W) conducted (FCC)
CPU	Intel Atom Z510 CPU @ 1.1Ghz
Memory	512 Mbytes RAM, 512 Mbytes SSD, 8 Gbytes MicroSD
Operating System	Linux (Debian)
Scripting	Java Virtual Machine
Host Interface Protocols	- EPCGlobal LLRP RFID host-to-reader protocol - CAEN RFID host-to-reader protocol
Antenna Connector	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	13 GPIO pins, TTL level
Connectivity	RS232 Serial Communication (DB9); USB 2.0 High Speed Host Port; Ethernet 10/100/1000BASE-T (RJ45)
Wireless Communication	GSM/GPRS (SMA) (optional) WiFi (optional via USB host)
Internal Interfaces	MicroSD slot SIM card housing (optional)
IP Rating	IP42
MTBF	135.000 hours
Dimensions	(W)275 x (L)155 x (H)39 mm ³ (10.8 x 6.1 x 1.5 inch ³)
DC Power	9÷36 Vdc (30W)
Operating Temperature	-20 °C to 55 °C
Weight	1.3 kg

Order Codes EPR4300 UHF – STD/GPRS