



Discover the Experience

EB RFID Reader EB URP1000-ETSI

The EB RFID Reader URP1000-ETSI is a proven high performance RFID Reader designed for industrial and retail supply chain usage.

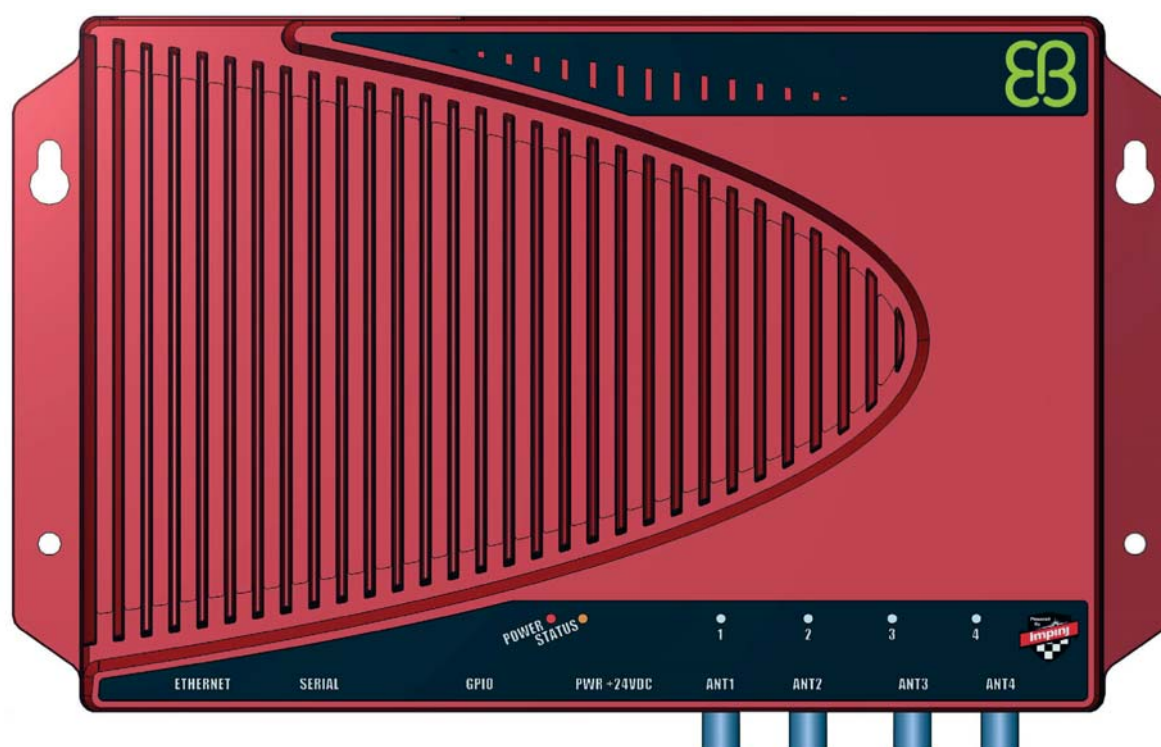
The EB RFID Reader URP1000-ETSI is a high performance RFID reader designed for use in industrial and retail applications. It features high acquisition performance paired with a ruggedized mechanical design for typical industrial RFID installations. It provides both a fast to use Web interface with integrated demo application and a high performance EPCglobal compliant RP/RM programming interface. The digital I/O capabilities support integration to industrial logic for process control.

Technology

- Highest performance and maximum flexibility for upgrading to new RFID standards by Software Defined Radio (SDR) architecture.
- Essential reduction of system costs by using single receive-transmit antennas for all 4 ports. Saves hardware and installation costs while providing best performance due to noise cancellation in the receiver.
- Two processor cores - one dedicated to signal and protocol processing and the second to run the application software.
- Powerful embedded Linux operating system supports integration of third party automation control scripts.



Key Features

- Compliant to EPCglobal™ Class-1 Gen-2 and ISO 18000-6C UHF RFID Standards
- Supports all Gen 2 commands, including read, write, lock and kill
- Supports dense reader mode
- Cuts system costs down by using single TX/RX antennas
- Software-defined radio architecture, fully remote upgradeable
- Temperature range of -20 °C to +55 °C
- Compliant to EN302 208
- Embedded Linux operating system
- Intelligent RFID reader supporting decentralized data processing
- Ruggedized modern mechanical design
- CE marked and ETSI compliant reader
- The EB RFID Reader URP1000-ETSI guarantees ultimate acquisition and network performance in the EB Identification Network



EB RFID Reader

EB URP1000-ETSI

Type	URP1000-ETSI
Functionality	ETSI compliant 4 port UHF reader (EN 302 208)
Supported protocols	ISO 18000-6C / EPC Class1 Gen2 (dense reader mode)
Modulation / Data rates	Forward link: PR-ASK, Tari = 16.6 μ s, Tari = 20 μ s Return link: FMO, 320 kbps Miller, fd=80 kbps (M=4), fd=40 kbps (M=8)
Frequency Range	865-868 MHz, channels according EN 302 208
Frequency accuracy	+/- 10 ppm
RF Transmit Power	max.: 1 W (30 dBm) @ antenna port SW programmable, attenuation range 0..15 dB, step size 0.25 dB
Talk Sensitivity	-80 dBm @ 40kbps FMO, BER=10 ⁻³
LBT Sensitivity	-96 dBm
Interfaces	4 dual mode read points (TX/RX ports), TNC reversed Ethernet (10/100BASE-T), RJ45 connector RS 232 for local login, DB9 connector RS 232 to control ext. devices, DB25 connector 4 digital in- and 8 digital outputs, DB25 connector 6 LED indicators for power, status and antenna selection
Communication Protocols	DHCP or fixed IP address Host communication protocol RP1.1/RM1.0.1 over TCP/IP Built in HTTP web server and demo application
Operating System	Linux operating System
Power Supply Voltage	12-36 V DC
Power Consumption (operation)	27 W
Operating Temperature Range	-20 to +55 °C
Storage Temperature Range	-20 to +85 °C
Humidity	5-95 % relative, non-condensing
Physical Dimensions	345 mm x 207 mm x 56 mm, without cables
Weight	2.9 kg
Environmental Protection	IP 42, IEC529
Regulatory	EN 302 208, EN 301 489, EN 60950
Certification	 certified by  <small>95011012600000605</small>

Elektrobit (EB)

EB creates advanced technology and turns it into enriching end-user experiences. EB is specialized in demanding embedded software and hardware solutions for automotive and wireless technologies. The net sales for the year 2006 totalled MEUR 181.5. Elektrobit Corporation is listed on OMX Helsinki. www.elektrobit.com