

UHF Industrial Reader Advant LR 4CH



Applications

- Industrial Automation
- Supply Chain
- Asset Tracking
- Waste Management
- Access Control

Features

- ISO18000-6B (optional)
- Up to +32 dBm (Software adjustable)
- Up to 4 Antennas can be connected
- Solutions for Long-Range Applications
- Possibility of using different RFID Standards parallel in one Application
- Several Standard Read Modes
- Integrated I/O Ports
- Micro SD Slot for Memory Extension
- Diagnostic Mode via USB
- Multiple Interface Options
- Integrated Webserver for Remote Access
- Common SDK for all BLUEBOX Products
- BLUEBOX SHOW Applications Software
- CE & FCC approved

RFID Options

- UHF (EPC C1G2 / ISO18000-6C)

Description

The BLUEBOX UHF – Advant Controller Long-Range 4CH is a powerful Read/Write device with 4 Antenna Ports. This powerful device can achieve a reading distance of up to 12 meters with SW adjustable RF power of up to +32 dBm.

The BLUEBOX UHF – Advant Controller Long-Range 4CH perfectly fits into gate applications with the usage of several antennas. The combination of a modern RF module and an up to date controller engine enables a fast data processing and high reading rates in one device.

The powerful BLUEBOX SDK allows the fast development of extensive applications. The controller can be set up for both the European (ETSI) and the North American (FCC) market.

Technical Data

Electrical Specifications	
Housing-Material	Aluminium
Dimensions	110 x 140 x 60 mm
Weight	430 g
Protection Class	IP65

Electrical Specifications	
Power Supply	24 VDC \pm 10 %
Power Consumption	3.5 W
Operating Frequency	865–960 MHz (ETSI & FCC)
Output Power	+32 dBm (SW adjustable)
Operating Distance	up to 12 m
Connectors	2x M12 (Power & Interface)
Antenna Connector	4x TNC-Female Integrated Multiplexer
Digital I/O	2 (opto-isolated)
Memory Extension	Micro SD-Slot
Interface options	RS232/485, Ethernet, Profibus, Profinet, Modbus (TCP)

Features	
Working Modes	Scan Mode, Notification Mode, Buffered Read Mode, Stand-alone Mode
Integrated Webserver	Remote Configuration & Stand-alone Mode
RSSI Info	Via Software Command
Status Display	8/12
Multi-Reader Env.	Dense Reader Mode
Temperature Sensor	On-board
Real – Time Clock	Accuracy > 0,01s
Service Interface	USB

Environmental Conditions	
Operating Temperature	-20°C to +55 °C
Humidity	5% to 95%

Supported Standards / Tags	
ISO18000-6C, EPC Class 1 Gen 2	

Applicable Standards	
EMC	EN 301 489-3
Radio Regulation	EN 302 208-2
Safety	CEI EN 60950-1 CEI EN 50364

SDK Information	
Supported OS	Windows 7, 8
Supported Languages	C#, C++, serial command protocol

*Reading distance depends on tag, antenna and environmental conditions

Order Codes

Version	Order Code
Ethernet	R-IN-UHF-5232U
RS232/RS485	R-IN-UHF-5231U
Profibus	R-IN-UHF-5233U
Modbus (TCP)	R-IN-UHF-5232U-MB

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