



UHF Industrial Reader Advant MR 1CH

Applications

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

Features

- ISO18000-6B (optional)
- Up to +30 dBm (Software adjustable)
- 1 Antenna Port available
- Solutions for Near Field, Short- & Mid-Range applications
- Possibility of using different RFID Standards parallel in one Application
- Several Standard Read Modes
- Integrated I/O Ports
- Diagnostic Mode via USB
- Multiple Interface Options
- Common SDK for all BLUEBOX Products
- BLUEBOX SHOW Applications Software
- CE & FCC approved

RFID Options

- UHF (EPC C1G2 / ISO18000-6C)

Description

BLUEBOX UHF Advant MR 1CH is a read/write device with 1 antenna port. This powerful device can achieve a reading distance of up to 6 meters with SW adjustable RF power of up to +27 dBm.

The Advant MR 1CH reader allows for near field, short- and mid-range applications. The combination of a modern RF module and an up to date controller engine enables both fast data processing and high reading rates in one device. The powerful BLUEBOX SDK allows the fast development of extensive applications.

The reader/writer can be set up for both the European (ETSI) and the North American (FCC) market.

Technical Data

Electrical Specifications	
Housing-Material	Aluminium + PC
Dimensions	110 x 140 x 60 mm
Weight	ca. 700 g
Protection Class	IP67

Electrical Specifications	
Power Supply	24 VDC ± 10 %
Power Consumption	3.5 W
Operating Frequency	840–960 MHz
Output Power	+30 dBm (SW adjustable)
Operating Distance	up to 6 m
Connectors	M12 (Power & Interface)
Antenna Connector	1x TNC-Female
Digital I/O	2 (opto-isolated)
Memory Extension	Micro SD-Slot
Interface options	RS232/485, Ethernet, Profibus, Profinet, Modbus (TCP)

Features	
Working Modes	Continuous Mode Spontaneous Mode
RSSI Info	Via Software Command
Status Display	4/8
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-5238U
RS232/RS485	R-IN-UHF-5237U
Profibus	R-IN-UHF-5239U
Modubus (TCP)	R-IN-UHF-5238U-MB

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