

BLUEBOX UHF – Advant Controller MR 1CH



iDTRONIC's BLUEBOX Controller & Antenna family is well suited for industrial and enterprise applications, where reliable, robust and well performing products are needed. All components are designed as a powerful combination for an easy and cost efficient system installation.

The BLUEBOX UHF – Advant Controller MR 1CH is a read/write device with 1 Antenna Port. This powerful device can achieve a reading distance of up to 6 meter with SW adjustable RF power of up to +27 dBm.

The Advant Controller MR 1CH 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 controller can be set up for both the European (ETSI) and the North American (FCC) market.

Features

- 865–928 MHz (ETSI & FCC)
- Supports ISO18000-6C & EPC C1G2
- ISO18000-B (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 Modes
- Integrated I/O ports
- Micro SD slot for memory extension
- Diagnostic mode via USB
- Multiple interface options
- Ruggedized product design and enclosure
- Integrated webserver for remote access to controller
- Common SDK for all BLUEBOX products
- BLUEBOX SHOW applications software
- CE & FCC approved

Applications

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



Technical Data

Mechanical Specifications

Housing-Material:	Aluminium + PC
Dimensions:	110 × 140 × 60 mm
Weight:	ca 700 g
Protection Class:	IP67

Electrical Specifications

Power Supply:	24 VDC ± 10 %
Power Consumption:	3.5 W
Operating Frequencies:	865 - 867 MHz (ETSI) 902 - 928 MHz (FCC)
Output Power:	+30 dBm (SW adjustable)
Operating Distance:	Up to 6 m
Connectors:	M12 (Power & Interface)
Antenna Connector:	1 × TNC-Female;
Digital I/O:	2 (opto-isolated)
Interface Options:	RS232/485, Ethernet, Profibus, W-LAN, GPRS, PROFINET, Ethernet/IP
Memory Extension:	Micro SD-Slot
Temperature Sensor:	On-board

Environmental Conditions

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

Features

Supported Transponders:	ISO18000-6C, EPC Class 1 Gen 2, ISO18000-B (optional)
Working Modes:	Continuous Mode Spontaneous Mode
Integrated Webserver:	Remote Configuration & Standalone Mode
RSSI Info:	Via Software Command
Status Display:	4–8 LEDs
Multi-Reader Env.:	Dense Reader Mode
Real – Time Clock:	Accuracy > 0,01s
Service Interface:	USB

Order Codes

RS232/RS485: R-IN-UHF-5237U
Ethernet: R-IN-UHF-5238U
Profibus: R-IN-UHF-5239U