BLUEBOX UHF – Advant Controller LR 4CH

iDTRONIC
PROFESSIONAL RFID

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 LR 4CH is a powerful read/write device with 4 Antenna Ports. This powerful device can achieve a reading distance of up to 10 meter with SW adjustable RF power of up to +32dBm.

The BLUEBOX UHF – Advant Controller LR 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 fast development of extensive applications. The controller can be set up for both, the European (ETSI) and the North American (FCC) market.

Applications

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

Features

- 865–928 MHz (ETSI & FCC)
- Supports ISO18000-6C & EPC C1G2
- ISO18000-B (optional)
- Integrated I/O ports
- Micro SD slot for memory extension
- Ruggedized product design and enclosure
- IP67
- Multiple interface options
- Up to +32dBm (Software adjustable)
- Up to 4 antennas can be connected
- Possibility of using different RFID standards parallel in one application
- Several Standard Read Modes
- Diagnostic mode via USB
- Integrated webserver for remote access
- Common SDK for all BLUEBOX products
- BLUEBOX SHOW applications software
- CE & FCC approved

Technical Data

Mechanical Specifications

Housing-Material:	Aluminum + 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 (ETS)
	902 - 928 MHz (FCC)
Output Power:	+32dBm (SW adjustable)
Operating Distance:	Up to 10 m
Connectors:	2 × M12 (Power & Interface)
Antenna Connector:	4 × TNC-Female; Integrated Multiplexer
Digital I/O:	2 (opto-isolated)
Interface Options:	RS232/485, Ethernet, PROFIBUS, W-LAN, GPRS, PROFINET, Ethernet/IP
Memory Extension:	Micro SD-Slot

Environmental Conditions

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

Features

Supported Transponders:	ISO18000-6C, EPC Class 1 Gen 2, ISO18000-6B (option)
Working Modes:	Continuous Mode, Spontaneous Mode
Integrated Webserver:	Remote Configuration & Standalone Mode
RSSI Info:	Via Software Command
Status Display:	8/12 LEDs
Multi-Reader Env.:	Dense Reader Mode
Temperature Sensor:	On-board
Real – Time Clock:	Accuracy > 0,01s
Service Interface:	USB

Applicable Standards

Radio Regulation:	CE & FCC

Available Antennas

Name	Long-Range Antenna	High-Gain Long-Range Antenna	Basic Circular/Linear Antenna
Size	270 × 270 × 45 mm	555 × 262 × 59 mm	245 × 235 × 40 mm
Reading distance	Up to 12 m	Up to 10 m	Up to 6 m
Order codes	ETSI: R-IN-UHF-9126U FCC: R-IN-UHF-9127U	ETSI: R-IN-UHF-9128U FCC: R-IN-UHF-9129U	Circular: R-IN-UHF-9021U Linear: R-IN-UHF-9022U

Order Codes

RS232/485:	**R-IN-UHF-5231U**
Ethernet :	**R-IN-UHF-5232U**
Profibus:	**R-IN-UHF-5233U**