

BLUEBOX UHF – Advant Controller Integrated Antenna



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 with Integrated Antenna can achieve a reading distance of up to three meters with SW adjustable RF power of up to +30 dBm. The BLUEBOX UHF – Advant Controller MR with Integrated Antenna is the perfect device for applications with limited space for installations and the demand for good reading ranges.

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 supports 865-867 MHz (ETSI)

Features

- 865–867 MHz (ETSI)
- Supports ISO18000-6C & EPC C1G2
- ISO18000-6B (optional)
- Up to +27 dBm (Software adjustable)
- Integrated Antenna
- Solutions for Near Field, Short- & Mid-Range applications
- Possibility of using different RFID standards parallel in one application
- Several Working 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)
Output Power:	+30 dBm (SW adjustable)
Operating Distance:	Up to 3 m
Connectors:	M12 (Power & Interface)
Antenna Connector:	Internal Antenna
Digital I/O:	2 (opto-isolated)
Interface Options:	RS232/485, Ethernet, Profibus,
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
Working Modes:	Continuous Mode Spontaneous Mode
Integrated Webserver:	Remote Configuration & Standalone 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

Order Codes

Ethernet: R-IN-UHF-5222U
RS232/485: R-IN-UHF-5221U
Profibus: R-IN-UHF-5223U