

Industrial UHF Access Control Gate



iDTRONIC's BLUEBOX Reader & 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 iDTRONIC BLUEBOX Access Control Gate UHF is a high performance solution for access control applications. It is equipped with the BLUEBOX UHF Long-Range 4CH. The switching between the single antennas can then be managed with the integrated multiplexer and the Controller SW.

Each antenna panel has two circular polarized antennas for enabling 3D tag reading independent from the orientation of the tag. The recommended clearance between the 2 panels is < 2m. Thanks to the Ethernet interface it is easy to integrate this portal into the network. A RS232 version is also available.

Features

- Robust and resistant construction
- Ethernet interface or RS232
- Modern design
- Recommended Portal Clearance of up to 200cm

Technical Data

Mechanical Specifications

Housing-Material:	Frame-Steel + Powder Coated Silver Aluminium Side panels Acrylic, white
Dimensions:	155 x 50 x 6cm (each panel)
Weight:	16kg (2 panels with Controller)

Application

- Access Control



Environmental Conditions

Operating Temperature:	0 °C to +50 °C
Humidity:	5 % to 95 %

Features

Signals:	LED + Sound
Product Includes:	2pcs Antenna Panels with 4 UHF Basic Antennas Circular 1pc BLUEBOX UHF Long-Range 4CH 1pc Power Supply 12V All Cables

Components

General features - BLUEBOX UHF Advant LR 4CH

The BLUEBOX UHF – Controller Long-Range 4CH is a Read/Write device with 4 Antenna Ports for the connection of up to 4 external antennas. This powerful device can achieve a reading distance of up to 6 meter with SW adjustable RF power of up to +30 dBm. 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.



- 865–928 MHz (ETSI & FCC)
- Supports ISO18000-6C & EPC C1G2
- ISO18000-6B available as option
- Up to +33 dBm (Software adjustable)
- Up to 4 antennas can be connected
- Solutions for Mid- & Long-Range applications
- Several Standard Read Modes like Buffered Read Mode, Scan Mode, Notification Mode & RSSI Control
- Integrated I/O ports
- Diagnostic mode via USB
- Multiple interface options
- Ruggedized product design and enclosures
- Common SDK for all BLUEBOX products
- BLUEBOX SHOW application software
- CE & FCC approved

General features – Basic Antenna Circular

The Basic Circular Antenna UHF is a high-performance device. Through its circular polarized setting, the user will be able to read out the tags in multiple 3D orientations.



- Stable performance
- Circular polarized
- Able to read out multiple orientated tags
- Operation RF Frequency range of 865 - 956MHz
- Gain 7dBic

Order Codes

RS232: R-IN-UHF-5101U
Ethernet: R-IN-UHF-5102U