

BLUEBOX UHF – Long-Range Portal



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.

iDTRONIC's BLUEBOX UHF – Long-Range Portal has been designed as a solution for dock-door applications in a single, highly rugged package. Its robust construction makes it suitable for rough industrial and warehouse environments, both indoors and outdoors.

iDTRONIC's BLUEBOX UHF – LR Portal consists of the BLUEBOX UHF Controller LR 4CH plus 4 circular polarized UHF Basic Antennas. The standard interface for this device is Ethernet. Other interfaces are available on request.

The BLUEBOX UHF Long-Range Portal is specially configured for UHF Long-Range applications. It is a complete solution in hardware and software. Thanks to the optionally available photo sensors, the UHF Portal is able to detect the sense of the pallet or forklift coming. Thanks to this it is easy to distinguish between Goods-In and Goods-Out. A light stack signal gives always the status of the reading process.

The iDTRONIC BLUEBOX UHF Long-Range Portal is fully functional, ready to use and guarantees seamless integration into existing IT-infrastructures.

Features

- Robust and resistant construction
- Floor mounting holes and small footprint
- Cable Access from ground or from top
- Integrated digital I/Os and power supply
- Antennas in horizontal and vertical axes movable
- Special design for enhanced RF footprint
- Light Stack Signal
- Photos Sensors for detection of direction of goods (Option)
- Photocells to detect the moving direction
- Ethernet interface
- Recommended Portal Clearance of up to 5 meters

Applications

- Industrial
- Access Control
- Asset Tracking
- Warehouse



Technical Data - Portal

Mechanical Specifications

Housing-Material:	Metal, metal doors with Plexiglas front
Dimensions:	200 × 80 × 20 cm (metal housing)
Weight:	70 kg (entire portal)

Electrical Specifications

Portal clearance:	Max. 5 meters
Power Supply:	230 VAC, 15 Watts
Sensors:	Photocells to detect moving direction (option)

Environmental Conditions

Operating Temperature:	-10 °C to +45 °C
Humidity:	5 % to 95 %

Features

Signals:	Light Stack for visual alarm
	Integrated beeper

BLUEBOX UHF Controller Long-Range 4CH

The BLUEBOX UHF – Controller Long-Range 4CH is a powerful Read/Write device with 4 Antenna Ports. This powerful device can achieve a reading distance of up to 10 meters with SW adjustable RF power of up to +32 dBm. The BLUEBOX UHF – Controller Long-Range 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 the fast development of extensive applications. The controller can be set up for both the European (ETSI) and the North American (FCC) market.



Key Features - BLUEBOX UHF Controller Long-Range 4CH

- 860–960 MHz (ETSI & FCC)
- Supports ISO18000-6C & EPC C1G2
- ISO18000-6B available as option
- IP67
- Up to +32 dBm (Software adjustable)
- Up to 4 antennas can be connected
- Solution for Long-Range applications
- Possibility of using different RFID standards parallel in one application
- Several Standard Read Modes like Buffered Read Mode, Scan Mode, Notification Mode & RSSI Control

- Integrated I/O ports
- Micro SD slot for memory extension
- USB Service Interface
- 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

UHF High-Gain Long-Range Antenna

iDTRONIC's BLUEBOX UHF High-Gain Long-Range Antenna is a LHCP polarized high performance device which enables the UHF Long-Range reader to achieve a reading distance of up to 10 meters.



Key Features - UHF High-Gain LR Antenna

- IP65
- Stable performance
- 11dBic antenna gain
- Circular polarized
- Easy to integrate with BLUEBOX UHF- LR Controller
- Able to read out multiple orientated tags
- Operation Frequency range 865 – 867 MHz (ETSI) or 902 – 928 MHz (FCC)

Order Code

R-IN-UHF-POR-ET