



UHF Industrial Reader Long-Range Portal

Applications

- Access Control
- Asset Tracking
- Warehouse
- Industrial

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

RFID Options

- UHF (EPC C1G2 / ISO18000-6C)

Description

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.

Technical Data

Features - BLUEBOX UHF LR 4CH

840 – 960 MHz
Supports ISO18000-6C & EPC C1G2
ISO18000-6B available as Option
Up to +32 dBm (Software adjustable)
Up to 4 Antennas can be connected
Solutions for Mid- & 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
Diagnostic Mode via USB
Multiple Interface Options
Ruggedized Product Design and Enclosures
Integrated Webserver for Remote Access to Controller
Common SDK for all BLUEBOX Products
BLUEBOX SHOW Test/Configuration Software
CE & FCC approved

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 840 – 960 MHz

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 m
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 %

Applicable Standards

EMC	EN 301 489-3
Radio Regulation	EN 302 208-2
Safety	CEI EN 60950-1 CEI EN 50364

SDK Information

Supported OS	Windows 7, 8
Supported Languages	C#, C++, serial command protocol

*Reading distance depends on tag, antenna and environmental conditions

Order Codes

Order Code

R-IN-UHF-POR-ET

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