

BLUEBOX UHF – Controller

Mid-Range 4CH

The BLUEBOX UHF – Controller Mid-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.

Applications:

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

Features

- x 860–960 MHz (ETSI & FCC)
- x Supports ISO18000-6C & EPC C1G2
- x ISO18000-6B available as option
- x Up to +30 dBm (Software adjustable)
- x Up to 4 antennas can be connected
- x Solutions for Mid- & Long-Range applications
- x Possibility of using different RFID standards parallel in one application
- x Several Standard Read Modes like Buffered Read Mode, Scan Mode, Notification Mode & RSSI Control
- x Integrated I/O ports
- x Micro SD slot for memory extension
- x Diagnostic mode via USB
- x Multiple interface options
- x Ruggedized product design and enclosures
- x Integrated webserver for remote access to controller
- x Unique SDK for all BLUEBOX products
- x BLUEBOX SHOW application software
- x CE & FCC approved



Technical Data

Mechanical Specifications

Housing-Material:	Aluminum
Dimensions:	110 × 140 × 60 mm
Weight:	430 g
Protection Class:	IP65

Electrical Specifications

Power Supply:	24 VDC ± 10 %
Power Consumption:	3.5 W
Operating Frequencies:	865–960 MHz (ETSI & FCC)
Output Power:	+30 dBm (SW adjustable)
Operating Distance:	Up to 6 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:	Scan Mode, Notification Mode, Buffered Read Mode, Stand-alone 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
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Available Antennas

			
<i>Name</i>	Mid-Range Antenna	Long-Range Antenna	Basic Antenna Circ./Lin.
<i>Size</i>	154 × 126 × 36 mm	270 × 270 × 45 mm	245 × 235 × 40 mm
<i>Reading distance</i>	Up to 2 m	Up to 12 m	Up to 10 m
<i>Order codes</i>	ETSI: 9124U FCC: 9125U	ETSI: 9126U FCC: 9127U	Circular: R-LR-UHF-A1 Linear: R-LR-UHF-A2

Order Code

IDR-IN-UHF-5225U