

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 12 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.

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 +32 dBm (Software adjustable)
- x Up to 4 antennas can be connected
- x Solution for 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 enclosure
- x Integrated webserver for remote access to controller
- x Unique SDK for all BLUEBOX products
- x BLUEBOX SHOW applications software
- x CE & FCC approved

Technical Data

Mechanical Specifications

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

Electrical Specifications

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|------------------------|---|
| Power Supply: | 24 VDC ± 10 % |
| Power Consumption: | 3.5 W |
| Operating Frequencies: | 865–960 MHz (ETSI & FCC) |
| Output Power: | +32 dBm (SW adjustable) |
| Operating Distance: | Up to 12 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

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|------------------------|------------------|
| 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 |
|-------------------|----------|

Available Antennas

| | | | |
|-------------------------|---|---|---|
| |  |  |  |
| <i>Name</i> | Long-Range Antenna | Long-Range High-Gain Antenna | Basic Antenna Circ./Lin. |
| <i>Size</i> | 270 × 270 × 45 mm | 555 × 262 × 59 mm | 245 × 235 × 40 mm |
| <i>Reading distance</i> | Up to 12 m | Up to 10 m | Up to 10 m |
| <i>Order codes</i> | ETSI: 9126U FCC: 9127U | ETSI: 9128U FCC: 9129U | Circular: R-LR-UHF-A1 Linear: R-LR-UHF-A2 |

Order Code

IDR-IN-UHF-5231U