

# BLUEBOX UHF – Basic Controller

## 1CH

The BLUEBOX UHF – Basic Controller 1CH is a Read/Write device with one antenna port. The device can achieve a reading distance of up to 1 m with SW adjustable RF power of up to +20 dBm. The combination of a modern RF module with the up to date BLUEBOX SDK enables an easy start for ambitious developers. This powerful device is available as an ETSI version for the European market or an FCC version for the North American market.

### Applications:

- Industrial Automation
- Supply Chain
- Access Control



### Features

- X 865–867 MHz (ETSI) or 902–928 MHz (FCC)
- X Supports ISO18000-6C & EPC C1G2
- X Up to +20 dBm (Software adjustable)
- X 1 ! ntenna port
- X Solutions for Near Field & Short-Range applications
- X Possibility of using different RFID standards parallel in one application
- X Several Standard Read Modes like Scan Mode, Notification Mode
- X Integrated I/O ports
- X 4 LEDs for status information
- X Ruggedized product design and enclosures
- X Unique SDK for all BLUEBOX products
- X BLUEBOX SHOW applications software
- X CE & FCC approved

## Technical Data

### Mechanical Specifications

Housing-Material:	PC
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:	865–867 MHz (ETSI) or 902–928 MHz (FCC)
Output Power:	+20 dBm
Operating Distance:	Up to 1 m
Connectors:	PG9
Antenna Connector:	1 × SMA (Internal)
Digital I/O:	2 (opto-isolated)
Interface:	RS232 + RS485

### Environmental Conditions

Operating Temperature:	-20 °C to +55 °C
Humidity:	5 % to 95 %

### Features

Supported Transponders:	ISO18000-6C, EPC Class 1 Gen 2
Working Modes:	Scan Mode, Notification Mode
Status Display:	4 LEDs

### Applicable Standards

Radio Regulation:	CE & FCC
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## Available Antennas

			
<i>Name</i>	<b>Near-Field Antenna</b>	<b>Low-Range Antenna</b>	<b>Mid-Range Antenna</b>
<i>Size</i>	90 × 63 × 31 mm	90 × 63 × 31 mm	154 × 126 × 36 mm
<i>Reading distance</i>	Up to 4 cm	Up to 5 cm	Up to 1 m
<i>Order codes</i>	ETSI: 9121U FCC: 9122U	9123U	ETSI: 9124U FCC: 9125U

**Order Code**

**IDR-IN-UHF-121U**