BLUEBOX UHF – Controller Mid-Range with Integrated Antenna

The BLUEBOX UHF – Controller Mid-Range with Integrated Antenna can achieve a reading distance of up to three meters with SW adjustable RF power of up to +27 dBm. The BLUEBOX UHF – Controller Mid-Range with Integrated Antenna is the perfect device for applications with limited space for installations and the demand for good reading ranges. The combination of a modern RF module and an up-to-date controller engine enables both 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
- !sset 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 +27 dBm (Software adjustable)
x   Integrated !ntenna
x   Solutions for Near Field, Short- & Mid-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

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:	+27 dBm (SW adjustable)
Operating Distance:	Up to 3 m
Connectors:	2 × M12 (Power & Interface)
Antenna Connector:	Internal Antenna
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

Order Code   IDR-IN-UHF-5221U