

BLUEBOX HF – Advant Controller

Mid-Range 1CH



iDTRONIC's BLUEBOX Controller & Antenna family is well suited for industrial and enterprise applications, where reliable, robust and well performing products are needed. All components are designed as a powerful combination for an easy and cost efficient system installation.

The BLUEBOX HF – Controller Mid-Range 1CH is a Read/Write device with one antenna port. This powerful device can achieve a reading distance of up to 30 cm. The BLUEBOX HF – Controller Mid-Range 1CH allows Near-Field, Short- and Mid-Range applications.

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.

Applications

- Industrial Automation
- Asset Tracking
- Laundry Management
- Access Control



Features

- 13.56 MHz
- Supports ISO15693 & ISO18000-3
- 1 Antenna port
- Solutions for Near Field, Short- & Mid-Range applications
- Possibility of using different RFID standards parallel in one application
- Several Standard Read Modes like Buffered Read Mode, Scan Mode & Notification Mode
- Integrated I/O ports
- Micro SD slot for memory extension
- Diagnostic mode via USB
- Multiple interface options
- Ruggedized product design and enclosure
- Integrated webserver for remote access to controller
- Common SDK for all BLUEBOX products
- BLUEBOX SHOW applications software
- CE approved

Technical Data

Mechanical Specifications

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

Electrical Specifications

Power Supply:	24 VDC ±10 %
Power Consumption:	5 W
Operating Frequencies:	13.56 MHz
Operating Distance:	Up to 30 cm
Connectors:	M12
Antenna Connector:	1 × TNC-Female
Digital I/O:	2 (opto-isolated)
Interfaces (Standard):	Ethernet
Interfaces (Option):	RS232 & 485, WLAN, GPRS, PROFIBUS, PROFINET, Ethernet/IP
Memory Extension:	Micro SD-Slot

Environmental Conditions

Operating Temperature:	-20 °C to +65 °C
Humidity:	5 % to 95 %



Features

Supported Transponders:	ISO15693, ISO18000-3
Working Modes:	Scan Mode, Notification Mode, Buffered Read Mode, Stand-alone Mode
Integrated Webserver:	Remote Configuration & Standalone Mode
Status Display:	4/8 LEDs
Temperature Sensor:	On-board
Real – Time Clock:	Accuracy > 0,01s
Service Interface:	USB

Applicable Standards

Radio Regulation:	CE
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Available Antennas

		
Name	Panel Antenna	Antenna Long-Range
Sizes	200 × 200 × 20 mm 210 × 450 × 20 mm	240 × 240 × 20 mm 320 × 480 × 20 mm
Reading distance	Up to 17 cm	Up to 30 cm
Order codes	R-IN-HF-9222H (200 × 200 mm) R-IN-HF-9223H (210 × 450 mm)	R-IN-HF-9224HM (240 × 240 × 20 mm) R-IN-HF-9225HM (320 × 480 × 20 mm)

Order Codes

RS232/RS485: R-IN-HF-5231HM
Ethernet: R-IN-HF-5232HM
Profibus: R-IN-HF-5233HM