

## BLUEBOX HF –

### Advant Controller 2CH



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 – Advant Controller 2CH is a Read/Write device with two antenna ports. This powerful device can achieve a reading distance up to 15 cm. The BLUEBOX HF – Advant Controller 2CH allows Near-Field and Short-Range applications. Both antennas can be detected separately and work independently. Therefore it is the perfect device, where several readings points are required.

The combination of a modern RF module with 2 antenna ports 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 ISO14443A/B, ISO15693 & MIFARE Family
- 2 antenna ports
- Solutions for Near-Field & Short-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
- Real Time Clock



## Technical Data

### Mechanical Specifications

Housing-Material:	Aluminium
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:	13.56 MHz
Operating Distance:	Up to 15 cm
Connectors:	M12
Antenna Connector:	2 × Lumberg
Digital I/O:	2 (opto-isolated)
Interfaces (Standard):	Ethernet
Interfaces (Option):	RS232 &485, Profibus, Ethernet
Memory Extension:	Micro SD-Slot

### Environmental Conditions

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



### Features

Supported Transponders:	ISO14443A/B, ISO15693, NXP MIFARE family
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
-------------------	----

## Available antennas

		
<b>Name</b>	<b>Cylindrical antenna</b>	<b>Panel antenna</b>
<b>Sizes</b>	M30 × 78 mm	200 × 200 x 20 mm 210 × 450 x 20 mm
<b>Reading distance</b>	Up to 6 cm	Up to 17 cm
<b>Order codes</b>	R-IN-HF-9221H	R-IN-HF-9222H (200 × 200 mm) R-IN-HF-9223H (210 × 450 mm)

## Order Codes

**RS232/RS485: R-IN-HF-5241H**  
**Ethernet: R-IN-HF-5242H**  
**Profibus: R-IN-HF-5243H**