BLUEBOX HF –
Advant Controller 1CH

iDTRONIC
PROFESSIONAL RFID

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 1CH is a Read/Write device with one antenna port. This powerful device can achieve a reading distance up to 15 cm. The BLUEBOX HF – Advant Controller 1CH allows Near-Field and Short-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 ISO14443A/B, ISO15693, ISO18000-3
- 1 external antenna port
- 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

Technical Data

Mechanical Specifications

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

Electrical Specifications

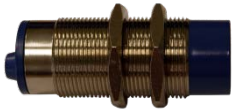|	
Power Supply:	24 VDC ±10 %
Power Consumption:	3 W
Operating Frequencies:	13.56 MHz
Operating Distance:	Up to 15 cm
Connectors:	M12
Antenna Connector:	1 × Lumberg
Digital I/O:	2 (opto-isolated)
Interfaces	Ethernet, RS232/RS485, Profinet, Profibus, WLAN Ethernet/IP, GPRS
Memory Extension:	Micro SD-Slot

Environmental Conditions

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

Features

Supported Transponders:	ISO14443A/B, ISO15693, ISO18000-3 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

Available Antennas

Name	Cylindrical antenna	Panel antenna
Sizes	M30 × 78 mm	200 × 200 x 20 mm 210 × 450 x 20 mm
Reading distance	Up to 6 cm	Up to 20 cm
Order codes	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-5231H
Ethernet: R-IN-HF-5232H
Profibus: R-IN-HF-5233H