

BLUEBOX HF – Reader M30



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 – Reader M30 is a Read/Write device with integrated antenna that can be easily installed into M30 windings. This powerful device can achieve a reading distance of up to 12 cm. The BLUEBOX HF – Reader Cylindrical M30 is an easy to use HF RFID Reader RS232 or RS485 interface. The up to date BLUEBOX SDK enables an easy start for ambitious developers.

Features

- 13.56 MHz
- Supports ISO14443A, ISO15693 & ISO18000-3
- Internal antenna
- Possibility of using different RFID standards parallel in one application
- Connection via RS232 & RS485
- 4 LEDs for status information
- Ruggedized product design and enclosure
- Unique SDK for all BLUEBOX products
- BLUEBOX SHOW applications software
- CE approved

Technical Data

Mechanical Specifications

Housing-Material:	Stainless steel, PC
Dimensions:	M30 × 78 mm
Weight:	200 g
Protection Class:	IP65

Electrical Specifications

Power Supply:	24 VDC ± 10 %
Operating Frequencies:	13.56 MHz
Operating Distance:	Up to 5 cm
Connectors:	1 × M12 (Power & Interface)
Interfaces:	RS232 or RS485

Applications:

- Industrial Automation
- Supply Chain



Environmental Conditions

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

Features

Supported Transponders:	ISO14443A, ISO15693, ISO18000-3, NXP Mifare family
Working Modes:	Scan Mode
Service Interface:	-

Applicable Standards

Radio Regulation:	CE
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Order Codes

RS232:	5224H	RS485:	5225H
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BLUEBOX optional Accessories

Mounting and connection kits are available for all BLUEBOX Controllers and Antennas, which guarantee easy installation.

Power Supplies

Version	Order Coder
Office Power Supply (for office usage) - 110-240V to 24V / 12W (with 2 meter Cable & M12 Connector)	0951A
Office Power Supply (for office usage) - 110-240V to 24V / 20W (with 2 meter Cable & M12 Connector)	0952A
Industrial Power Supply (for control cabinet) - 110-240V to 24V / 15W (without cable)	0953A
Industrial Power Supply (for control cabinet) - 110-240V to 24V / 15W (without cable)	0954A
IP65 Industrial Power Supply (for outdoor usage) - 110-240V to 24V / 50W (with PG9 cable glands & without cable)	0954A

Interface Cables

Version	Order Coder
Ethernet interface cable 3 meter with M12 & RJ45 connector	0902A
USB interface cable 1 meter with M12 Mini USB & USB A connector	0909A
RS232 interface cable 3 meter with M12 & Sub-D9 connector	0903A
RS232 / RS485 interface cable 3 meter with M12 connector & open ends	0904A
Profibus interface cable 3 meter with M12 connectors	0908A

Antenna Cables

Version	Order Coder
Antenna cable 3 meter RG58/U & Ω 50 with TNC-TNC connector	9903U
Antenna cable 3 meter RG58/U & Ω 50 with TNC-TNC connector	9904U
Antenna adapter Ω 50 TNC (Male) - SMA (Female)	0906U
Antenna adapter Ω 50 TNC - TNC	0951U
Antenna terminator Ω 50	0952U

Various Cables

Version	Order Coder
Power Supply cable 3 meter with M12 connector & open ends	0901A
I/O cable 3 meter with M12 connector & open ends	0905A

M12 Connectors

Version	Order Coder
Profibus M12 Y - connector	0907A
Profibus M12 T - connector	0956A
Profibus M12 terminator	0906A
Power Supply M12 connector	0910A
I/O M12 connector	0911A
Profibus M12 connector	0912A
Ethernet M12 connector	0913A
RS232 / RS485 M12 connector	0914A

Antenna Mounting Kits

Version	Order Coder
Antenna Mounting Kit for antenna 9124U, 9125U, 9126U & 9127U	9921U
Antenna Mounting Kit for antenna 9128U & 9129U	9922U
Antenna Mounting Kit for antenna 9130U & 9131U	9923U

The accessories are optional and not included by delivery