BLUEBOX RFid System

CX E Industrial Multitag RFID Reader

UHF

Description:

Read / write RFID industrial (IP65) device with integrated antenna operating in the UHF frequency band (840 MHz – 960 MHz). Communicates with a 'host' (typically a PC or PLC) via serial line RS232, RS485 and Ethernet 10 – 100M or via Wiegand interface, and liaising with a series of commands between it and the transponder present in the area of influence of the antenna.

General Features:

- ✓ Integrated antenna with auto-tuning feature.
- ✓ 2 Watts ERP
- ✓ RS232 / RS485 and Ethernet interface 10-100M or Wiegand interface.
- ✓ USB VirtualCom service interface.
- ✓ Real Time Clock (optional).
- ✓ Upgradable firmware.
- ✓ Two digital optoisolated inputs (optional).
- ✓ Two digital relay output (optional).
- ✓ One signalling LED and integrated buzzer.
- ✓ M12 connectors.
- ✓ Test and configuration software.
- ✓ ANSI C software library (*.dll, *.h, *.def, *.lib files).
- ✓ Standard ISO 18000-6C (EPC C1G2).
- ✓ CE compliant.

Applications :

- ✓ Industrial / parking automation.
- ✓ Robotics.
- ✓ Logistics / Data collection.

Electrical Features

Supported Transponder	ISO 18000-6C (EPC C1 G2)
Power Supply	10 … 36 Vdc PoE IEEE 802.3af-2003 Mode A
Power Ratings	15W @27dBm
Operating Frequency	865 MHz – 868 MHz
RF Output Power	Max 1 W (30 dBm), 1dB step software programmable, 2W ERP
Antenna	Integrated
Reading Distance	12 mt*
Communication Interface	RS232 / RS485 Ethernet 10 – 100M Wiegand interface
Service Interface	USB Virtual Com
Digital Inputs	2 optoisolated inputs, 10 – 36 Vdc, max 20 mA @24Vdc
Digital Outputs	2 relay outputs, 1A@30Vdc, 0.5A@125Vac
Status Display	1 LED, Buzzer

*Reading distance depends on tag, antenna and environmental conditions.

Mechanical Features

Dimensions	308 x 308 x 85 mm
Material	Die-cast aluminum, plastic
Color	RAL 7045 or RAL 9002
Class Protection	IP65

Environmental Conditions

Operating Temperature	-20°C ÷ +55°C
Storage Temperature	-40°C ÷ +85°C
Humidity	Up to 95%, non condensing

Applicable Standards

EMC	EN 301 489-1 V. 1.9.2:2011-09
Radio Regulation	EN 302 208-2 V. 1.4.1:2011-07
Safety	CEI EN 60950-1:2006-04

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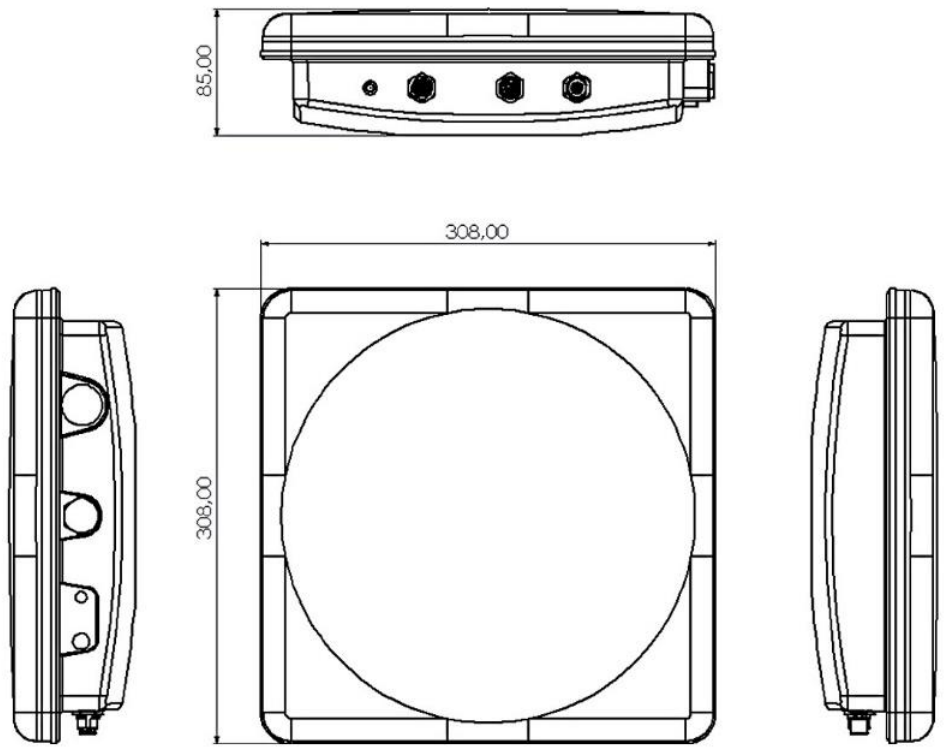
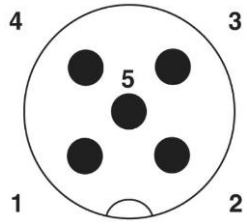
Mechanical View and Dimensions (in mm)



Dimensions in mm.

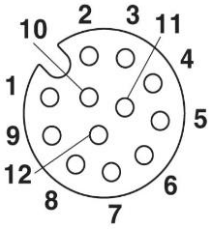
Electrical Interfaces

Power supply and serial line connection:



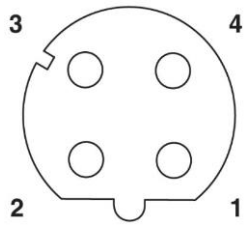
Pin	Description
1	+PWR
2	RS232-TXD RS485-RT+
3	-PWR
4	RS232-RXD RS485-RT-
5	PE

Input/output connection:



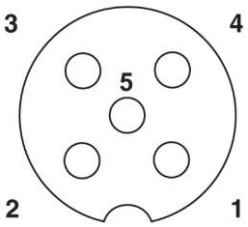
Pin	Description
1/3	IN1+ / IN2+
2/4	IN1 / IN2
5/7	OUT1 / OUT2 NO
6/8	OUT1 / OUT2 COM
12/9	OUT1 / OUT2 NC
10/11	IN1- / IN2-

Ethernet connection:



Pin	Description
1	TX+ / DC-
2	RX+ / DC+
3	TX- / DC-
4	RX- / DC+

Wiegand interface connection:



Pin	Description
1	+PWR
2	N.C.
3	-PWR
4	DATA-0
5	DATA-1

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Ordering Codes

5526U	Long Range read / write UHF RFID device with integrated antenna. With serial RS232/RS485 and Ethernet 10-100M communication interface. Grey white (RAL 9002) case color.
5526U-RTC	Long Range read / write UHF RFID device with integrated antenna and RTC (Real Time Clock). With serial RS232/RS485 and Ethernet 10-100M communication interface. Grey white (RAL 9002) case color.
5526U-G	Long Range read / write UHF RFID device with integrated antenna. With serial RS232/RS485 and Ethernet 10-100M communication interface. Grey (RAL 7045) case color.
5526U-RTC-G	Long Range read / write UHF RFID device with integrated antenna and RTC (Real Time Clock). With serial RS232/RS485 and Ethernet 10-100M communication interface. Grey (RAL 7045) case color.
5527U	Long Range read / write UHF RFID device with integrated antenna. With serial RS232/RS485 and Wiegand communication interface. Grey white (RAL 9002) case color.
5527U-RTC	Long Range read / write UHF RFID device with integrated antenna and RTC (Real Time Clock). With serial RS232/RS485 and Wiegand communication interface. Grey white (RAL 9002) case color.
5527U-G	Long range read / write UHF RFID device with integrated antenna. With serial RS232/RS485 and Wiegand communication interface. Grey (RAL 7045) case color.
5527U-RTC-G	Long range read / write UHF RFID device with integrated antenna and RTC (Real Time Clock). With serial RS232/RS485 and Wiegand communication interface. Grey (RAL 7045) case color.

NO PRODUCT IMAGE

RAL 7045

RAL 9002

Accessories (Optional)

0901A	M12 A-coded 5-poles female connector and open ends cable, 3m length (power supply and serial interface).
0922A	M12 A-coded 5-poles female connector and open ends (power supply) + DB9 (serial RS232 interface), 3m length.
0910A	M12 A-coded 5-poles female connector with screw connections and metal shell (power supply and serial interface).
0918A	M12 A-coded 5-poles female connector with screw connections and plastic shell (power supply and serial interface).
0902A	Ethernet M12 D-coded 4-poles male and RJ45 cable, 3m length.
0913A	Ethernet M12 D-coded 4-poles male connector with screw connections and metal shell.
0916A	Ethernet M12 D-coded 4-poles male connector with screw connections and plastic shell.
0920A	M12 A-coded 12-poles male connector and open ends cable, 4m length (input/output).
0905A	M12 A-coded 5-poles male connector and open ends cable, 3m length (Wiegand interface).
0911A	M12 A-coded 5-poles male connector with screw connections and metal shell (Wiegand interface).
0917A	M12 A-coded 5-poles male connector with screw connections and plastic shell (Wiegand interface).
0915A	M12 female connector plastic cap.
9924U	Mounting kit.

*Reading distance depends on tag, antenna and environmental conditions.

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