BLUEBOX UHF – Controller CX
Integrated Antenna

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.

BLUEBOX UHF – CX Controller read/write RFID industrial device with integrated antenna operating in the UHF frequency band (840MHz – 960MHz).

Communicates with a 'host' (typically a PC or PLC) via serial line RS232, RS485 or via Ethernet 10 – 100M, and liaising with a series of commands between it and the transponder present in the area of influence of the antenna.

Available with M12 or Amphenol RJ45 Connectors and optional Real Time Clock.

Applications

- **Robotics**
- **Logistics / Data Collection**
- **Industrial / Parking Automation**

Features

- Integrated antenna
- Antenna auto-tuning
- RS232, RS485 or Ethernet interface 10-100M
- USB VirtualCom service interface
- Real Time Clock (option)
- Upgradeable firmware
- Two digital opto-isolated inputs (option)
- Two digital relay output (option)
- Three signal LEDs
- Integrated buzzer
- M12 connectors, Amphenol RJ45 (option)
- Test and configuration software
- Stand Alone possibile
- ANSI C software library (*.dll, *.h, *.def, *.lib files)
- Standard ISO 18000-6C (EPC C1G2)
- IP67 protection

Electrical Features

Supported Transponder	ISO 18000-6C (EPC C1 G2)
Power Supply	10 – 36 Vdc, PoE
Power Ratings	15W @30dBm
Operating Frequency	840MHz – 960MHz, software programmable
Output Power	Max 1 W (30dBm), 1dBm step software programmable
Antenna	Integrated
Reading Distance	Up to 3m
Communication Interface	RS232, RS485, Ethernet 10 – 100M
Service Interface	USB VirtualCom (Internal)
Digital Inputs	2 opto-isolated inputs, 10 – 36 Vdc, max 20 mA @24Vdc
Digital Outputs	2 relay outputs, 1A@30Vdc, 0.5A@125Vac
Status Display	3 LEDs, buzzer
Connectors	M12, Amphenol RJ45

Mechanical Features

Dimensions	110 x 140 x 62 mm
Material	Die-cast aluminium, plastic
Class Protection	IP67

Environmental Conditions

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

Applicable Standards

EMC	EN 301 489-3
Radio Regulation	EN 302 208-2
Safety	CEI EN 60950-1 CEI EN 50364

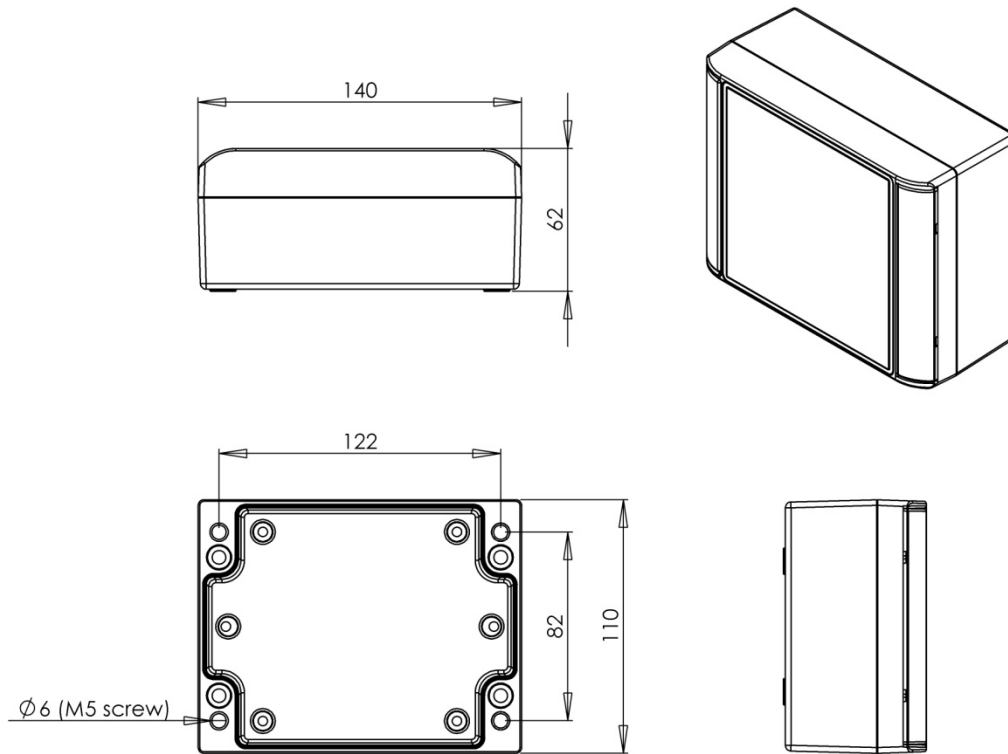Ethernet connection with M12 D-coded

Ethernet connection with Amphenol RJ45

Mechanical View and Dimensions (in mm)

140

62

122

82

110

∅6 (M5 screw)

(Enclosure without connectors)

Order Codes

Amphenol RJ45	RS232/485 ETH	**R-IN-UHF-5325U**
Amphenol RJ45	RS232/485 ETH + Real Time Clock	**R-IN-UHF-5325U-RTC**
M12	RS232/485 ETH	**R-IN-UHF-5326U**
M12	RS232/485 ETH + Real Time Clock	**R-IN-UHF-5326U-RTC**