iDTRONIC

PROFESSIONAL RFID

UHF Industrial Reader
CX-AVI LR

Applications

· **Parking**
· **Waste management**
· **Forklift**
· **Logistics**

Features

· **Integrated Antenna**
· **Antenna Auto-Tuning**
· **PoE**
· **M12 Connectors**
· **Up to 10 Meters Read Range**
· **RS232/RS485, Ethernet, Wiegand or Canbus (J1939)**
· **USB Service Interface**
· **Optional RTC**
· **IP65**
· **Supports ETSI & FCC Frequencies**

RFID Options

· **UHF** (EPC C1 GEN2 / ISO18000-6C)

Description

Industrial Reader BLUEBOX CX-AVI LR with integrated antenna, delivers outstanding performance and quality necessary for robust RFID-based applications.

Designed for industrial and outdoor environmets, it is driven by one of iDTRONIC's powerfull Embedded UHF RFID modules and equipped with an ethernet and RS232 / RS485 or optional Wiegand interface, for a flexible and low cost installation.

The industrial designed IP 65 device provides up to 27dBm power output which can be regulated through software commands, and achieves up to 10 meters / 33 feet reading distance.

CX-AVI LR is available for ETSI & FCC frequencies and supports the well known BLUEBOX SDK which includes a demo tool for Windows XP, 7 and up.

Additionally it comes along with programming information for C#, C++ and a seriel command protocol.

Technical Data

Electrical Specifications

Power Supply	10 ... 36 Vdc, PoE
Power Rating	15W @27dBm
Operating Frequency	840 – 960 MHz,
Max. Power	max 0.5 W (27 dBm) software programmable in 1dB steps
Operating Distance	up to 10 meters / 33 feet*
Antenna	integrated
Digitial Inputs	2 optoisolated inputs, 10 – 36 Vdc, max 20 mA @24 Vdc
Digital Outputs	2 relay outputs, 1A@30 Vdc, 0.5A@125Vac
Status	1 LED Buzzer
Interfaces	RS232 / RS485 Ethernet 10 - 100M Wiegand Canbus (J1939)
Service Interface	USB VirtualCom
Connections	M12 connectors

Antenna Specifications

Gain	8.5 dBic (min) 9.5 dBic (max)
VSWR	1.3:1 (max)
Azimuth 3 dB Beamw.	65° (typ)
Elevation 3 dB Beamw.	65° (typ)
Polarization	RHCP
Sidelobes Level @ 90°	-16 dB (max)
Axial Ratio at Boresight	2 dB (max)

Mechanical Specifications

Dimensions	308 x 308 x 85mm
Material	Die-cast aluminum, plastic
Class Protection	IP65
Housing Colour	RAL 7045

Environmental Conditions

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

Supported Standards / Tags

Standard ISO 18000-6C, EPC Class 1 Generation 2

Applicable Standards

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

SDK Information

Supported OS	Windows 7, 8
Supported Languages	C#, C++, serial command protocol

*Reading distance depends on tag, antenna and environmental conditions

Order Codes

Version	Order Code
Basic Version **ETSI**	R-IN-UHF-5526U-G
with Real Time Clock **ETSI**	R-IN-UHF-5526U-RTC-G
with Wiegand Interface **ETSI**	R-IN-UHF-5527U-G
with Canbus (J1939) + Ethernet	R-IN-UHF-5528U-G
Basic Version **FCC**	R-IN-UHF-5526U-G-FCC
with Real Time Clock **FCC**	R-IN-UHF-5526U-RTC-G-FCC

For further information & prices, please contact info@idtronic-rfid.com