

UHF Industrial Reader CX-AVI



Applications

- Parking
- Waste Management
- Forklift
- Logistics

Features

- Integrated Antenna
- Antenna Auto-Tuning
- Upgradeable FW
- PoE
- M12 Connectors
- Up to 8 Meters Read Range
- RS232/RS485, Ethernet, Wiegand or Canbus (J1939)
- USB Service Interface
- IP65
- Supports ETSI & FCC Frequencies

RFID Options

- UHF (EPC C1 GEN2 / ISO18000-6C)

Description

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

Designed for industrial and outdoor environments, it is driven by iDTRONIC's powerful Embedded UHF RFID module and equipped with an Ethernet and RS232 / RS485 interface for a flexible and low cost installation. An optional Wiegand interface is available as well.

The industrial designed device with its IP65 protection provides up to 27dBm power output which can be regulated through software commands, and achieves up to 8 meters / 26 feet reading distance.

CX-AVI is available for ETSI & FCC frequencies and supports the well known BLUEBOX SDK which includes a demo tool for Windows XP, 7 or 8.

Additionally it comes along with programming information for C#, C++ and a serial 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 8 meters / 26 feet*
Antenna	integrated
Digital 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

Antenna Specifications

Gain	7.5 dBic (min)
VSWR	1.3:1 (typ) 1.5 : 1(max)
3dB Beamwidth Azimuth Elevation	67° (typ) 73° (typ)
Polarization	RHCP
Axial Ratio at Boresight	2 dB (typ) 2.5 dB (max)
Axial Ratio @ ± 30°	3 dB (max)
F/B Ratio	-16 dB (typ)

Mechanical Specifications

Dimensions	190 x 190 x 80mm
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
--------------	--------------

*Reading distance depends on tag, antenna and environmental conditions

Order Codes

Version	Order Code
Basic Version ETSI	R-IN-UHF-5426U-G
with Real Time Clock ETSI	R-IN-UHF-5426U-RTC-G
with Wiegand Interface ETSI	R-IN-UHF-5427U-G
with Canbus (J1939)	R-IN-UHF-5428U-G
Basic Version FCC	R-IN-UHF-5426U-G-FCC
with Real Time Clock FCC	R-IN-UHF-5426U-RTC-G-FCC

iDTRONIC GmbH
Ludwig-Reichling-Straße 4
67059 Ludwigshafen
GERMANY

Phone +49 (0) 621 66 90 09 4-0
Fax +49 (0) 621 66 90 09 4-9
E-Mail: info@idtronic-rfid.com
Web: idtronic-rfid.com

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

Subject to alteration without prior notice
©2016 iDTRONIC GmbH