

# ECLINK RFID EC-RF200 Reader



The EC-RF200 is a cost-efficient mid range reader licensed according to ETSI, FCC and IC. Due to its very compact design, the EC-RF200 is best suited for integration in machines as well as office applications.

## 1、Characteristics:

- very compact
- can easily be integrated in machines
- internal antenna for applications with limited space
- external antennas makes numerous application possible
- 0.5 W transmission power

## 2、Advantages

- One internal antenna (up to 30 cm)
- Three external antennas (SMA)
- Flexible through large external antenna portfolio
- Power over Ethernet
- For distributed identification points
- Small size and DIN rail mounting
- Easy integration in machines or cabinets

### 3、Technical characteristics

<b>Transponder protocol</b>		EPC class Gen2 (ISO 18000-6-c)
<b>UHF RFID antenna interface</b>		
Antenna connection	one internal antenna (up to 20 cm read range) 3 x SMA connector (50 Ohm)	
Transmitting Power	max. 0.5 W configurable	
Frequency area	860 MHz ... 960 MHz (depending on specific reader)	
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>RF-R200 (PoE) Ethernet (TCP/IP) 10/100 Mbit/s; Full Spec. 802.3</li> <li>RF-R200 (module); RS 323 (serial), USB</li> </ul>	
<b>Performance</b>		
Max.Operating Distance	Up to 2 m, depending on transponder & environmental conditions	
<b>Protocol Modi</b>	<ul style="list-style-type: none"> <li>Host Mode</li> <li>Notification Mode (Ha-VIS RFID RF-R200 (PoE))</li> <li>Scan Mode (Ha-VIS RFID RF-R200 (module))</li> <li>Buffered read mode</li> </ul>	
<b>Power Supply</b>		
Power supply	12 V ... 24 V DC	
Power consumption	max. 7 W	
<b>Design features</b>		
Dimensions (W x H x D)	145x85x27	
Degree of protection acc. to DIN	IP 30	
60 529 Installation on DIN rail	DIN rail mounting kit (optional accessories)	
<b>Environmental conditions</b>		
Operating temperature	-25 °C ... +55 °C (module)	
Storage temperature	-25 °C ... +85 °C	
Relative humidity	5 % ... 95 % (non-condensing)	
Vibration	EN 60 068-2-6 10 Hz ... 150 Hz: 0.075 mm / 1 g	
Shock	EN 60 068-2-27 Acceleration: 30 g	

<b>Norms &amp; Safety</b>  Radio license  EMC Safety RoHS compliant  Extras	
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### 3、Interface definition:

- 1) Power interface, external DC9-36V power adapter
- 2) LAN interface, RJ45 connector definition

8PIN RJ45 connector definition		
Pin	Definition	Describe
1	TX+	Tranceive Data+ (Send signal+)
2	TX-	Tranceive Data- (Send signal-)
3	RX+	Receive Data+ (Receive signal+)
4	NC	NO Connect
5	NC	NO Connect
6	RX-	Receive Data- (Receive signal-)
7	NC	NO Connect
8	NC	NO Connect

- 3) ANT1, ANT2, ANT3 Interface, SMA connector



**caution**

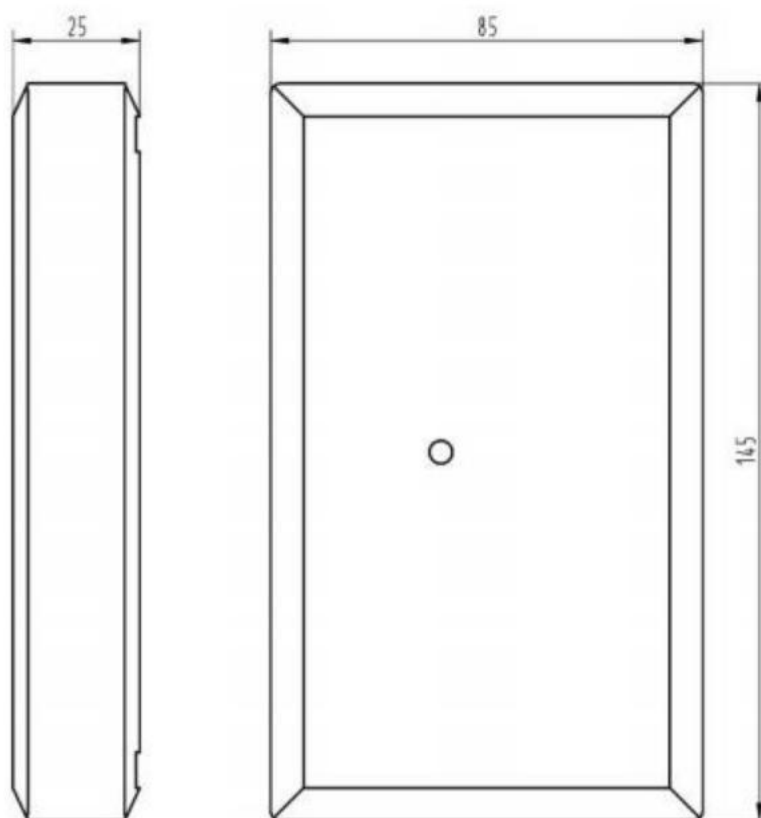
Connect only the antenna you need to use. Do not open the software for the antenna that is not connected, otherwise the reader and writer may be damaged without load!

#### 4、LED display lamp:

There is an LED display light on the front of the read-write host, which is defined as follows:

Indicator light	definition
Led	Blue light on -- indicates data upload (read label); If it is not on, it means there is no data upload

#### 5、Dimensions in mm



#### caution:

This device must be professionally installed

This equipment does not allow any antenna to work with the transmitter; the permitted antenna type must be specified external antennas, for example (antenna name: Planar RFID antenna, Model: Ha-VIS RF-ANT-LR20)

device is generally for industrial/commercial use. it must be sold to authorized dealers or installers only, cannot be sold via retail to the general public or by mail order.

The equipment is an RFID technology RF product, and must be installed by electrical and electronic professionals with a professional certificate

## **FCC Caution**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **RF warning for Mobile device:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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## **IC Caution.**

**CAN ICES-003(B) / NMB-003(B)**

RSS-Gen Issue 3 December 2010" & "CNR-Gen 3e édition Décembre 2010:

- English:

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.