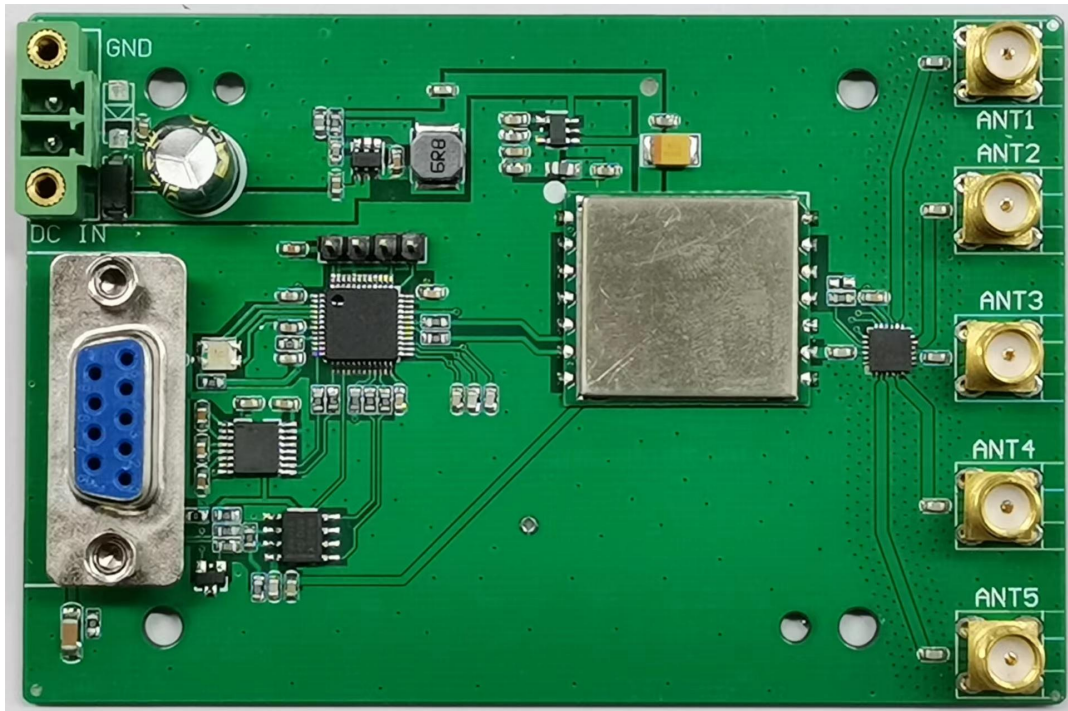


EC-RF650 fixed reader/writer



EC-RF650-C-ZM is a five channel fixed ultra-high frequency RFID reader and writer launched by EC-LINK company. It meets the ISO 18000-6C standard and operates at frequencies ranging from 840MHz to 960MHz. It has a compact appearance and outstanding read and write performance, supporting RS232 and RS485 interface data communication.

This reader can be widely used in fields such as automated production line management, retail logistics center management, enterprise transportation management, and warehousing logistics management.

EC-LINK Automation (Shenzhen) Co. Ltd.

1. Product Functional Features

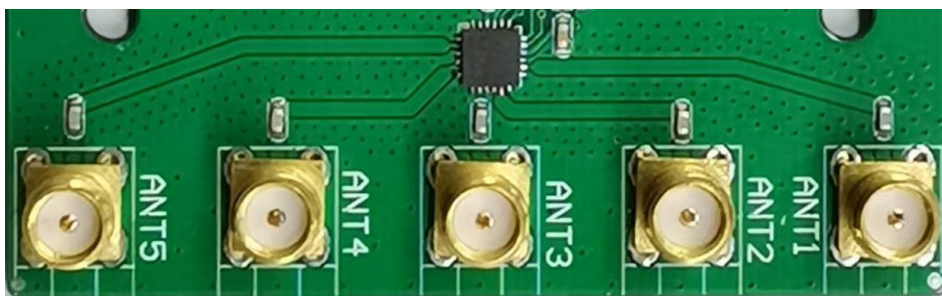
- Working frequency band: 840MHz~960MHz
- Support agreement: ISO 18000-6C/EPC C1G2
- Working mode: frequency hopping
- Output power: maximum 500mW
- Reading and writing distance: greater than 3 meters, related to antenna and label specifications.
- Working power supply: DC 7V-30V, 1A
- Maximum power consumption: 2W
- Operation temperature: -25℃- +70℃
- Storage temperature: -40℃- +85℃
- Working humidity: 10%~95% RH without condensation
- Communication interface: RS232、RS485
- Finished size: 95X60X14mm

2、Interface definition:

- 1) POWER interface, external DC9-36V power adapter
- 2) DB9 female interface, connector definition

DB9 Definition of female interface		
Pin	Define	Illustrate
1	NC	hang in the air
2	RS_232 TXD	RS_232 send signal
3	RS_232 TXD	RS_232 receiving signal
4	NC	hang in the air
5	GND	digitally
6	RS_485 A	RS_485 A
7	RS_485 B	RS_485 B
8	NC	hang in the air

3) ANT1, ANT2、ANT3Interface, SMA connector, connecting antenna



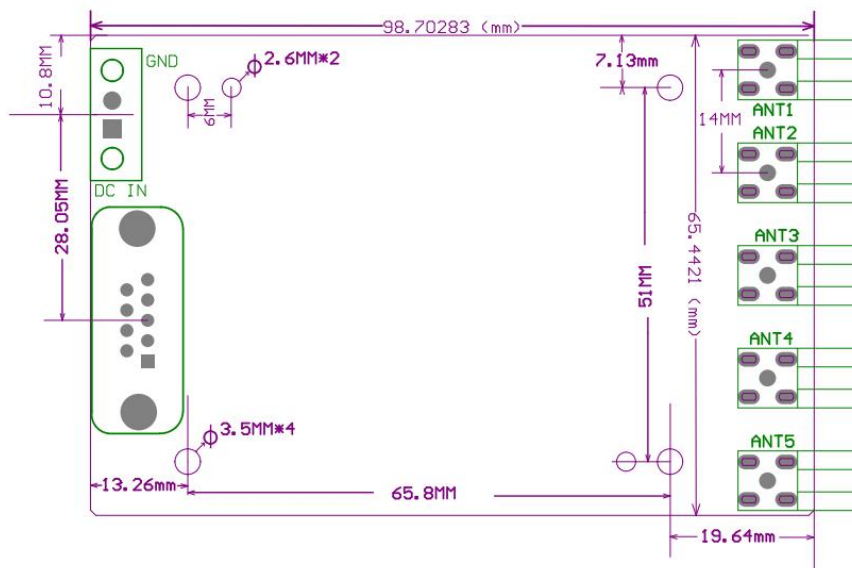
Note: The RF terminal is only connected to the antenna that needs to be used. Please do not open the software for unconnected antennas, otherwise empty space may damage the reader/writer!

3、Human machine interface requirements:

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

Pilot lamp	Define
Led	Red light on – indicates no data has been uploaded (label not read)
Led	Green light flashing – indicates data upload (reading label data)
Led	Blue light flashing – indicates software upgrade in progress

4、Drawing



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: EC-UHF-ANT-NF0011)

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

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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 éditionDécembre 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.