EC-LINK Four Channel RFID Controller User Manual

EC-LINK Four Channel RFID Controller

EC-RF6F0-UB is a four-channel RFID controller introduced by EC-LINK Company. It conforms to ISO 18000-6C standard and operates at 860MHz-928MHz, support Network and USB interface data communication
The controller can be widely used in automatic production line management, Retail Logistics Center Management, Enterprise Transportation Management and warehousing logistics management and other fields

Contents

Product features

- Operating Frequency: 860MHz-960MHz
- Support Protocol: support ISO 18000 -6C/EPC C1 G2
- How it works: frequency hopping Output Power: Maximum 500MW
- Reading and writing distance: more than 3 meters, with the antenna, label specifications
- Working Power: DC 9V-36V, 1A
- Maximum power consumption: 2W
- Operating temperature: -25℃ -70 ℃
- Storage temperature: -40℃ -85 ℃
- Working Humidity: 10% ~ 95% RH without condensation
- Communication interface: 100M Ethernet, USB2.0
- Finished product size: 103X80X26mm
- Protection level: IP64
- Certification: ROHS, CE certification
- MTBF: greater than 328,000 hours

Interface definition

1. Power interface, external DC9-36V POWER adapter
2. LAN interface, RJ45 connector definition

8PIN RJ45 interface definition		
Pin	**Definition**	**Description**
1	TX+	Tranceive Data (signal+)
2	TX-	Tranceive Data (signal-)
3	RX+	Tranceive Data (signal+)
4	NC	Levitation
5	NC	Levitation
6	RX-	Tranceive Data (signal-)
7	NC	Levitation
8	NC	Levitation

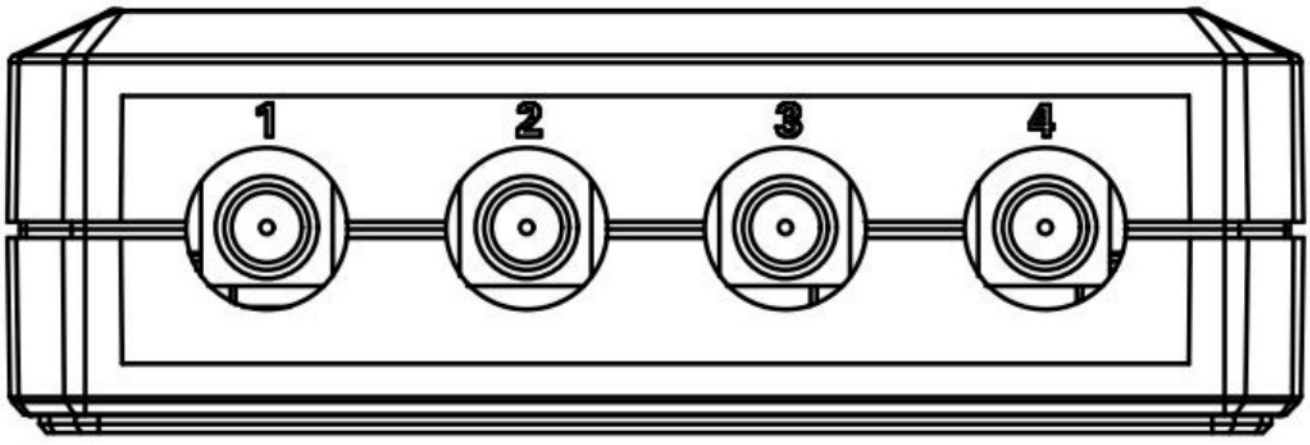
3. USB Type-C interface connector definition

4PIN USB interface definition		
Pin	**Definition**	**Description**
A1	GND	Power source

A2	NC	Levitation
A3	NC	NC
A4	VCC	Power DC5V
A5	NC	Levitation
A6	D+	Data line is positive
A7	D-	Data line negative
A8	NC	Levitation
A9	VCC	Power DC5V
A10	NC	Levitation
A11	NC	Levitation
A12	GND	Power source
B1	GND	Power source
B2	NC	Levitation
B3	NC	Levitation
B4	VCC	Power DC5V

B5	NC	Levitation
B6	D+	Data line is positive
B7	D-	Data line negative
B8	NC	Levitation
B9	VCC	Power DC5V
B10	NC	Levitation
B11	NC	Levitation
B12	GND	Power source

4. ANT1, ANT2, ANT3, ANT4 interface, SMA connector, connecting antenna



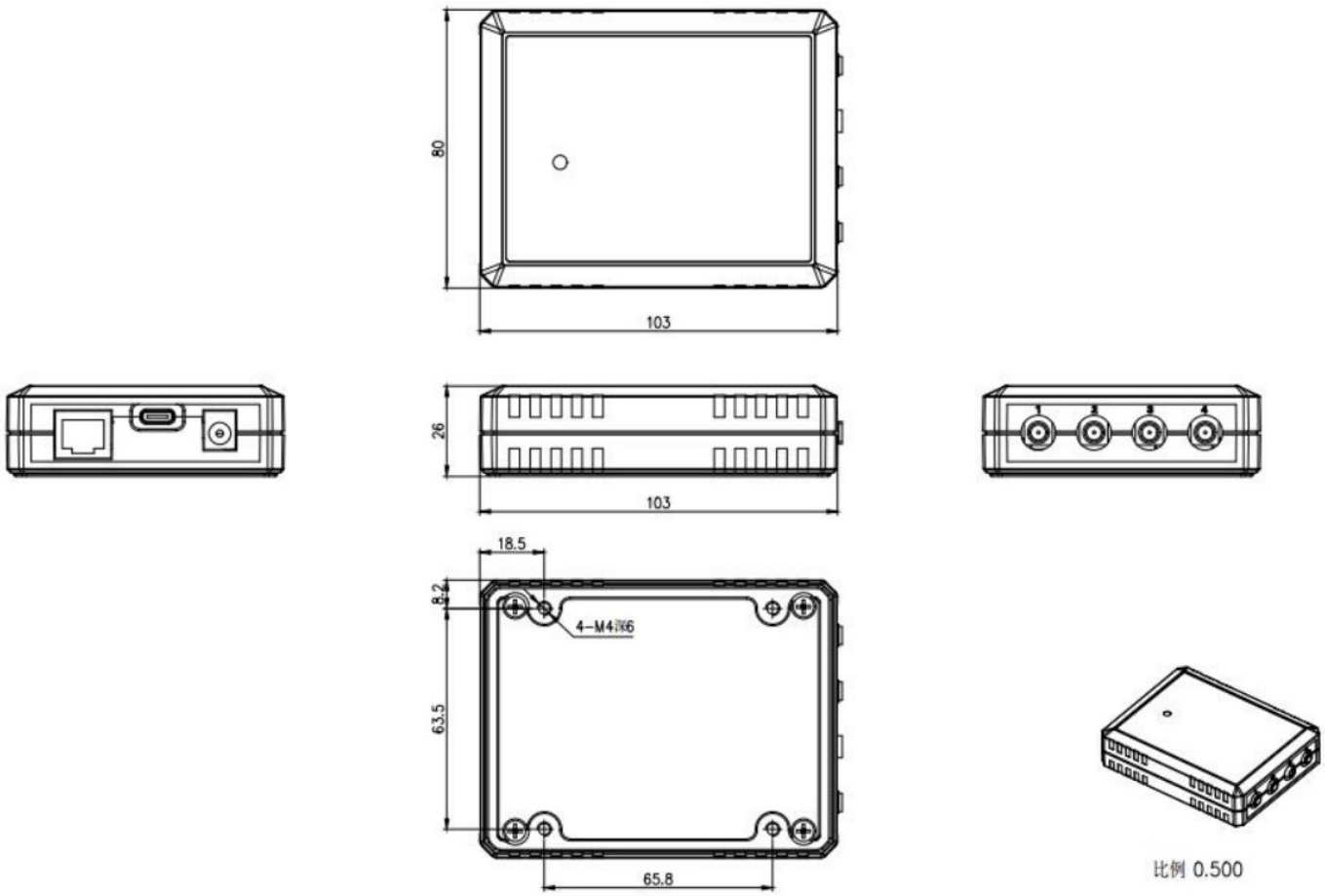
Connect only the antennas you need to use. The antenna is not connected, do not open the software, or the load may damage the reader!

Man-machine interface requirements

Reading and writing host front has an LED display light, the specific definitions as follows

Lights	Definition
Led	Red light-indicates no data upload (no label read)
Led	Green light flashing-indicates data upload (reading label data)
Led	Blue light flashing-indicates software update in progress

Installation Dimension 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: 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 tothe 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 radiofrequency 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.

IC Caution.

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

RSS-Gen Issue 3 December 2010″&”CNR-Gen 3e edition December 2010:

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

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Documents / Resources

	**EC-LINK Four Channel RFID Controller** [pdf] User Manual ECRF6F0, 2A83H-ECRF6F0, 2A83HECRF6F0, Four Channel RFID Controller, Four Channel Controller, RFID Controller, Controller, RFID

References

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