SYSIOT SR-RU461 Series UHF RFID Fixed Reader Instruction Manual

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SYSIOT SR-RU461 Series UHF RFID Fixed Reader

Product Information

- The UHF RFID Fixed Reader is a high-quality product manufactured by SHENZHEN SYS IoT CO., LTD.
- It is designed to provide reliable and efficient reading and writing of UHF RFID tags.

Product Usage Instructions

Installation

To install the UHF RFID Fixed Reader, follow the steps below:

1. Choose a suitable location for the reader, ensuring it is securely mounted and protected from environmental factors.
2. Connect the appropriate interface (USB, RS232, RS485, Weigand, RJ45) to your computer or network.
3. Ensure the power supply is connected correctly and within the specified voltage range (9V~24V).

Tag Reading

The UHF RFID Fixed Reader supports the reading of UHF RFID tags. To read tags, follow these steps:

1. Ensure the reader is powered on and connected to the appropriate interface.
2. Place the UHF RFID tags within the reading distance of the reader (up to 35m).
3. The reader will automatically detect and read the tags, providing the necessary information for further processing.

Tag Writing

The UHF RFID Fixed Reader also supports writing data to UHF RFID tags. To write data to tags, follow these steps:

1. Ensure the reader is powered on and connected to the appropriate interface.

2. Prepare the UHF RFID tags that you want to write data to.
3. Using compatible software or programming tools, send the desired data to the reader.
4. Place the prepared tags within the writing distance of the reader (up to 1m).
5. The reader will write the provided data to the tags, ensuring successful programming.

Frequently Asked Questions (FAQ)

- **Q:** What is the maximum reading distance of the UHF RFID Fixed Reader?
- **A:** The maximum reading distance is 35m.
- **Q:** What are the supported communication interfaces?
- **A:** The UHF RFID Fixed Reader supports USB, RS232, RS485, Weigand, RJ45(TCP/IP, UDP), and 4 GPIO (including 2 GPI and 2 GPO) interfaces.
- **Q:** What is the operating temperature range of the reader?
- **A:** The operating temperature range is -20°C to +55°C.
- **Q:** What is the power supply requirement for the reader?
- **A:** The reader requires a DC power supply of 12.0V (9V~24V).

General Description

This serial is our high-performance UHF RFID fixed reader. It is designed with low power dissipation and a highly integrated RFID chip solution, which has features of long reading distance, high identification speed, multiple interfaces, and ease of installation. It can be widely used in logistics tracking, commodity inventory, cargo sorting, vehicle management, personnel management, asset management, medical systems, cold chain management, temperature monitoring, power monitoring, anti-counterfeiting systems production process control and many other applications.

Features

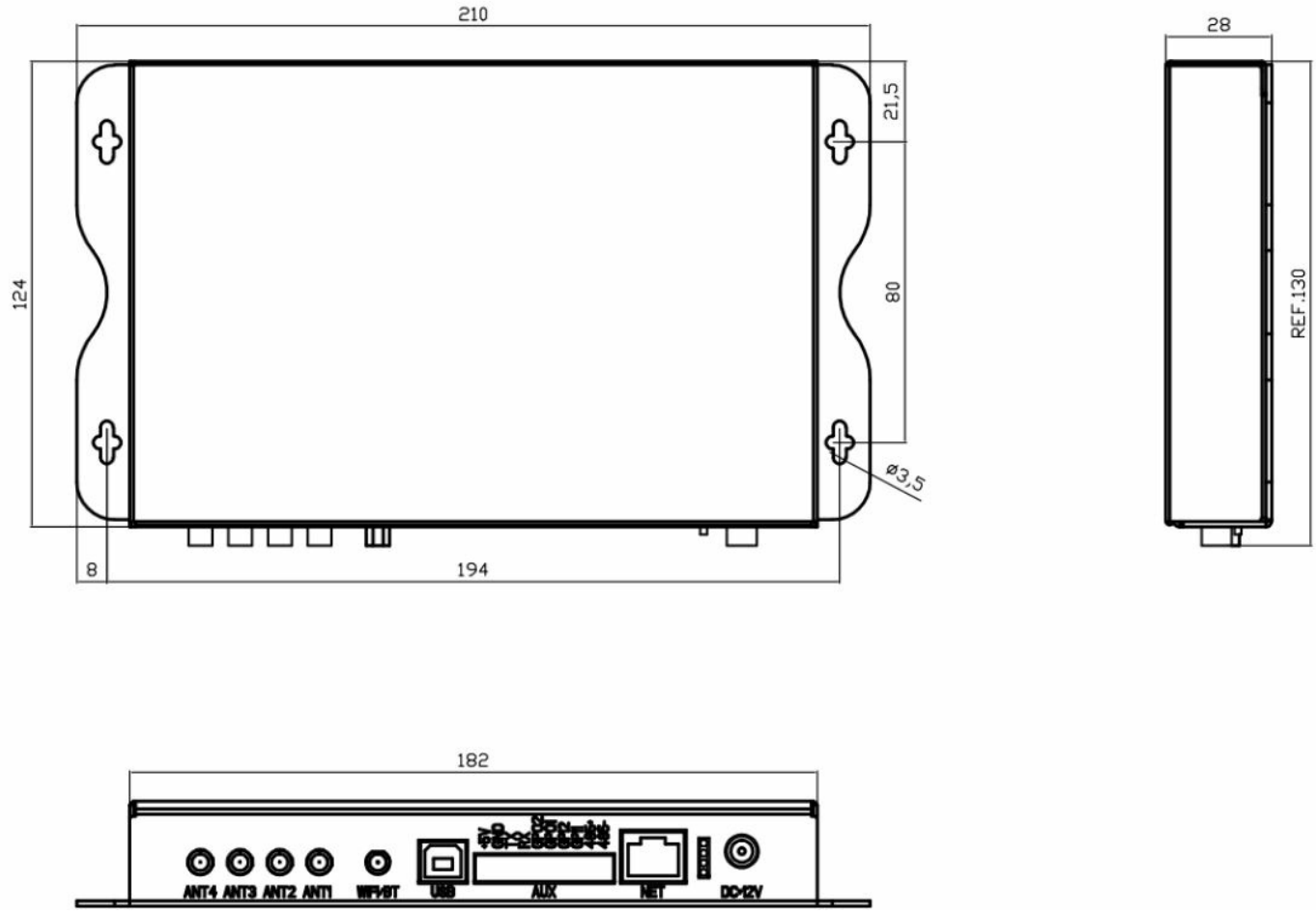
- Designed with low power dissipation and a highly integrated RFID module solution
- Support EPC Global UHF class 1 gen2 / ISO18000-6C protocol RFID tags.
- Optimized multiple tags inventory algorithm, speed is more than 100 per second
- Support command, polling, and trigger mode
- Support EPC, TID and USER inventory independently or conjunctively
- Support IAP firmware upgrading
- Low power dissipation with a single +12 DC power supply
- Interface support USB, RS232, RS485, Weigand, RJ45(TCP/IP, UDP),
- Number of tag caches up to 800pcs (96-bit EPC length)
- Provide DEMO and SDK for development
- Support development based on Windows, Android, Linux etc. and C, C#, JAVA, Python etc.

Specification

Main Function		
Protocol	EPC Global UHF Class 1 Gen 2 / ISO 18000-6C	
RSSI	Support	
Tag Reading		
Reading distance	≥35m	
Writing distance	≥1m	
Multiple tag reading speed	≥200pcs/s	
Communication Parameter		
Interface	Support USB, RS232, RS485, Weigand, RJ45(TCP/IP, UDP),	
	4 GPIO, including 2 GPI and 2 GPO	
Baud rate	115200bps	
Power Parameter		
Operating Voltage	DC 12.0V (9V~24V)	
Operating Current	≤600mA / DC 12V	
Standby Current	≤100mA / DC 12V	
Working Environment		
Operating Temperature	-20~+55℃	
Storage Temperature	-30~+85℃	
Operating Humidity	<95%RH (+25℃) Non-condensing	

Dimension

Dimension of SR-RU461B



FCC STATEMENT

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, according 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 under 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 the receiver.
- Connect the equipment to 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with a minimum distance between 20cm of the radiator and your body: Use only the supplied antenna.

CONTACT

- Tel: 0086-755-82706913
- Fax: 0086-755-82706900
- E-mail: sales@sysiotrfid.com.
- http://www.sysiotrfid.com.
- Add: Room 262, Yiben E-Commerce
- and Industrial Park, Chaguang Road
- Nanshan District, Shenzhen, China
- Post Code 518055

Documents / Resources

	SYSIOT SR-RU461 Series UHF RFID Fixed Reader [pdf] Instruction Manual SR-RU461 Series, SR-RU461B D, SR-RU461 Series UHF RFID Fixed Reader, UHF RFID Fixed Reader, RFID Fixed Reader, Fixed Reader, Reader

References

- Http://sysiotrfid.com
- sysiotrfid.com/
- User Manual