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Quick Start Guide
Din-Rail Serial RS485 to Wi-Fi and Ethernet Converter
USR-DR404

Product Information:
This is our official website: https://www.usriot.com/
If you need more information about the product, you can browse this website.

Technical Support:
For technical support queries, please visit
https://www.usriot.com/support/

1. Hardware Preparation

Verify that you have all included equipment. If any item is missing or damaged, contact your supplier.

Included equipment:
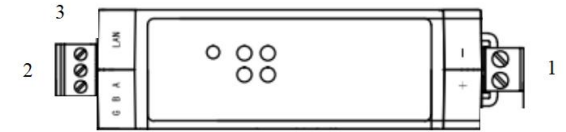

DC5V 1A power supply   USR-DR404

Conversion cable

Required additional equipment:

PC
(Ethernet cable)

2. Hardware Review

1. **Power terminal**:Power supply: 5-36V DC Wiring needs to check marks "+" "-".

2. **RS485 Terminal**:Based on the photo,from bottom to up is G B/R A/T.

3. **RJ45 Port**:Ethernet Port.

LED	color	Status indication
RJ45 LED	Green	On when connected with a Ethernet network
	Yellow	Flashes when receiving or sending data
PWR	Red	On after power on
LINK	Green	Flashes every 2s after Wi-Fi connection is established
RX	Green	Flashes when the device sends data
TX	Green	Flashes when the device receives data

![USR IOT logo](www.usriot.com)

3. Connect The Hardware

1. USR-DR404 defaults to AP mode, Ethernet port defaults to LAN port. So the PC can connect the Wi-Fi or Ethernet port of DR404 for the first time.

Notes: DR404 default SSID is: USR-DR404_xxxx; (xxxx is the last four digits of DR404 MAC)

2. RS485 can connect with a PC or other serial port device by serial cables. Following the RS485 pin-position information in Hardware Review.

3. After the hardware is properly connected, connect the standard power adapter to power the device.

Connection diagram is as follows:

4. Download Required Documentation And Software

Required documentation and setup software can be downloaded from here, click "Download":
https://www.usriot.com/products/din-rail-rs485-wifi-serial-device-server.html

Notes: Be sure you have administrative privileges and disable any firewall/anti-virus software when installing software.

5. Configure USR-DR404

The **default LAN IP address of DR404 is 10.10.100.254**. When a computer is connected to the Wi-Fi or Ethernet port of DR404, the assigned IP address range is **10.10.100.1 to 10.10.100.253**. Mask **255.255.255.0.** In order to ensure normal communication, please disable other network cards of the computer. Parameters can be configured by web page or AT command.

Here we focus on configuring parameters via web page:

1. Open your web browser and enter **10.10.100.254.** The default username and password are both "**admin**".

2. After entering the built-in web page, click **Application Setting**, in **Uart Setting**, serial port parameters should be consistent with the serial device.

In **Network A Setting**, configure the work mode, protocol, port and server address of DR404.

3. After setting the parameters, click **Apply**. Under **Device Management**, click **Restart** to restart the device.

If you need to configure via AT command, please find the detailed AT commands in the user manual of DR404.

Default Parameters	
User Name	admin
Password	admin
IP address	10.10.100.254
Mask	255.255.255.0
Gateway	10.10.100.254
Work Mode	TCP Server
Source Port	8899
Wi-Fi Mode	AP
Ethernet Port	On, LAN
Baud Rate	57600
Check bit/Data bit/Stop bit	None/8/1