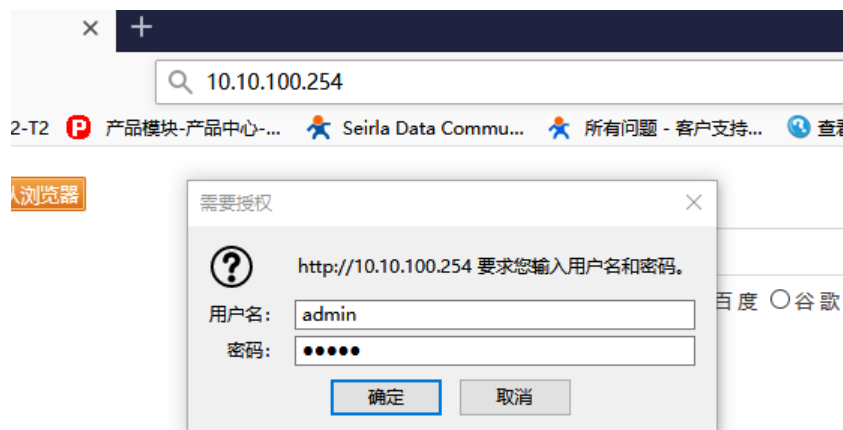


USR-W610 Configuration by Web-page

1. PC joins into the wifi of USR-W610, SSID of USR-W610 is USR-W610_XXXX



2. Enter 10.10.100.254, the account and password are both admin



3. Quick configure, can show you the main functions of USR-W610

[Quick Configure](#)
[Mode Selection](#)
[AP Interface Setting](#)
[STA Interface Setting](#)
[Application Setting](#)
[Ethernet Setting](#)
[HTTPD Client Mode](#)
[Advanced](#)
[Device Management](#)

Quick Configure

1F [Wi-Fi Setting](#) [\[Modify\]](#)

Wifi Mode	
Mode	AP Mode
Wireless configuration	
Network Name(SSID)	USR-W610_5CF8 Hidden <input type="checkbox"/>
BSSID	D8:B0:4C:C5:5C:F8
Security Mode	Disable
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

2F [Ethernet Ports Setting](#) [\[Modify\]](#)

3F [Uart Setting](#) [\[Modify\]](#)

4F [Network Setting](#) [\[Modify\]](#)

5F [Device Management](#)

Restart Module	
Restart Module	<input type="button" value="Restart"/>

4. Mode Selection, USR-W610 can work at AP or STA mode. The data transfer mode can be configured as Transparent mode, Serial command (AT command), HTTPD client, Modbus TCP to Modbus RTU.

[Quick Configure](#)
[Mode Selection](#)
[AP Interface Setting](#)
[STA Interface Setting](#)
[Application Setting](#)
[Ethernet Setting](#)
[HTTPD Client Mode](#)
[Advanced](#)
[Device Management](#)

Working Mode Configuration

You may configure the Uart-WIFI module wifi mode and data transfer mode.

☒ **AP Mode:**
 Access Point

☐ **STA Mode:**
 Station Mode

Data Transfer Mode

Transparent Mode
 Transparent Mode
 Serial Command Mode
 HTTPD Client Mode
 Modbus TCP=>Modbus RTU

5. AP Interface Setting: USR-W610 works at AP mode. Here refers to the parameters of USR-W610. Both supports user defined.
- ① Wireless Network: WIFI parameters of USR-W610.
 - ② LAN Setup: The default IP address of USR-W610. Login webpage by this IP address.

[中文](#)
[English](#)

- [Quick Configure](#)
- [Mode Selection](#)
- [AP Interface Setting](#)
- [STA Interface Setting](#)
- [Application Setting](#)
- [Ethernet Setting](#)
- [HTTPD Client Mode](#)
- [Advanced](#)
- [Device Management](#)

AP Interface Setting

AP Interface Setting such as SSID, Security...

Wireless Network	
Network Mode	11b/g/n mixed mode ▾
Network Name(SSID)	USR-W610_5CF8 Hidden <input type="checkbox"/>
BSSID	D8:B0:4C:C5:5C:F8
Frequency (Channel)	AutoSelect ▾

USR-W610_5CF8	
Security Mode	Disable ▾

LAN Setup	
IP Address(Default DHCP Gateway)	10.10.100.254
Subnet Mask	255.255.255.0
DHCP Type	<div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px;">Server ▾</div> <div style="margin-left: 5px;"> <div style="border: 1px solid #ccc; padding: 2px;">Disable</div> <div style="border: 1px solid #ccc; padding: 2px; background-color: #007bff; color: white;">Server</div> </div> </div>

- ③ Security Mode: You can select security mode as you required.

- [Quick Configure](#)
- [Mode Selection](#)
- [AP Interface Setting](#)
- [STA Interface Setting](#)
- [Application Setting](#)
- [Ethernet Setting](#)
- [HTTPD Client Mode](#)
- [Advanced](#)
- [Device Management](#)

AP Interface Setting

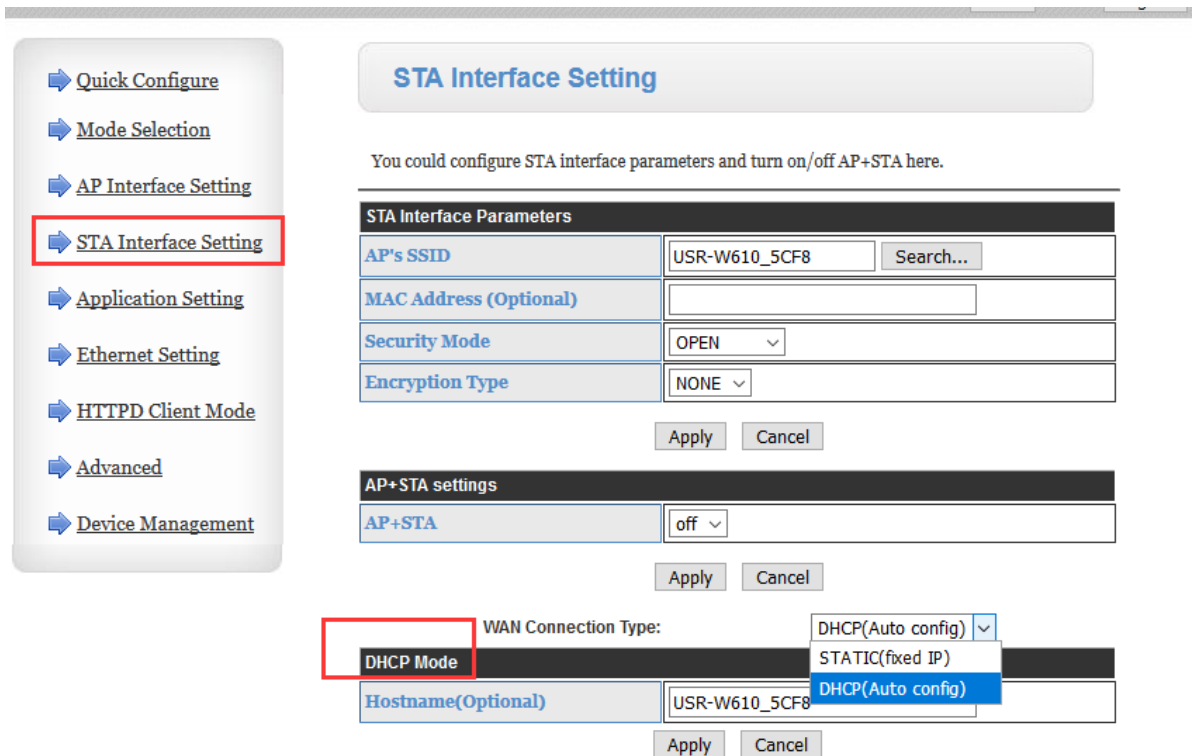
AP Interface Setting such as SSID, Security...

Wireless Network	
Network Mode	11b/g/n mixed mode ▾
Network Name(SSID)	USR-W610_5CF8 Hidden <input type="checkbox"/>
BSSID	D8:B0:4C:C5:5C:F8
Frequency (Channel)	AutoSelect ▾

USR-W610_5CF8	
Security Mode	<div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px;">Disable ▾</div> <div style="margin-left: 5px;"> <div style="border: 1px solid #ccc; padding: 2px; background-color: #007bff; color: white;">Disable</div> <div style="border: 1px solid #ccc; padding: 2px;">OPENWEP</div> <div style="border: 1px solid #ccc; padding: 2px;">SHAREDWEP</div> <div style="border: 1px solid #ccc; padding: 2px;">WPA-PSK</div> </div> </div>

6. STA Interface Setting: USR-W610 access to other AP.

- ① STA Interface Parameters: It refers to the parameters of the AP to which USR-W610 is connected
- ② AP+STA Settings: USR-W610 can act as both AP and STA.
- ③ DHCP Mode: How does USR-W610 get IP address under STA mode.
 DHCP: Will get the IP from AP automatically
 Static IP: User can setup the fixed IP on here.



7. Application Setting

- ① WiFi-Uart Setting, the parameters should be setup the same value as your serial port device. (Picture 1)
- ② Network A Setting: 4 modes can be set on the network side as TCP Server, TCP client, UDP Server and UDP client. User can select one of them in the project. (Picture 2 as below)
 UDP Server: USR-W610 will remember the last communication between the UDP client and will communicate with the last UDP client.
 UDP Client: Under this mode, USR-W610 only communicates with the target IP and Port
 TCP Server: USR-W610 does not need to set IP address. Work at this mode, W610 can't automatically connect to the Client. It accepts max 24 Clients.
 TCP Client: Need to fill in the server IP/port to make sure the device connect to TCP server actively.
- ③ SocketB Setting: This part only takes effect when USR-W610 at TCP Client or UDP Client mode.
- ④ TCP Connection Password authentication: It only works under TCP server mode. Will verify the password of TCP client which will be connected to W610.
- ⑤ More functions: Registered package Setting, Custom heartbeat packet settings, socket distribution settings, modbus polling. (Picture 3 as below)

Picture 1 WiFi-Uart Setting

- ➡ Quick Configure
- ➡ Mode Selection
- ➡ AP Interface Setting
- ➡ STA Interface Setting
- ➡ Application Setting
- ➡ Ethernet Setting
- ➡ HTTPD Client Mode
- ➡ Advanced
- ➡ Device Management

Wifi-Uart Setting

You could configure the Uart parameters and network parameters of the wifi-uart application.

Uart Setting	
Baudrate	57600 ▾
Data Bits	8 ▾
Parity	None ▾
Stop	1 ▾
Flow control	Disable ▾
485 mode	Enable ▾
Baudrate adaptive (RFC2117)	Enable ▾

Apply Cancel

UART AutoFrame Setting	
UART AutoFrame	Disable ▾

Apply Cancel

Registered Package Setting	
Registered Package Type	off ▾

Upload Manner: first: Module send registration packet when connection established; every: Send registration packet every time when module send data

Apply Cancel

Picture 2 Network A Setting

- ➡ Quick Configure
- ➡ Mode Selection
- ➡ AP Interface Setting
- ➡ STA Interface Setting
- ➡ Application Setting
- ➡ Ethernet Setting
- ➡ HTTPD Client Mode
- ➡ Advanced
- ➡ Device Management

Apply Cancel

Httpdclient Mode settings	
Httpdclient Mode	long ▾

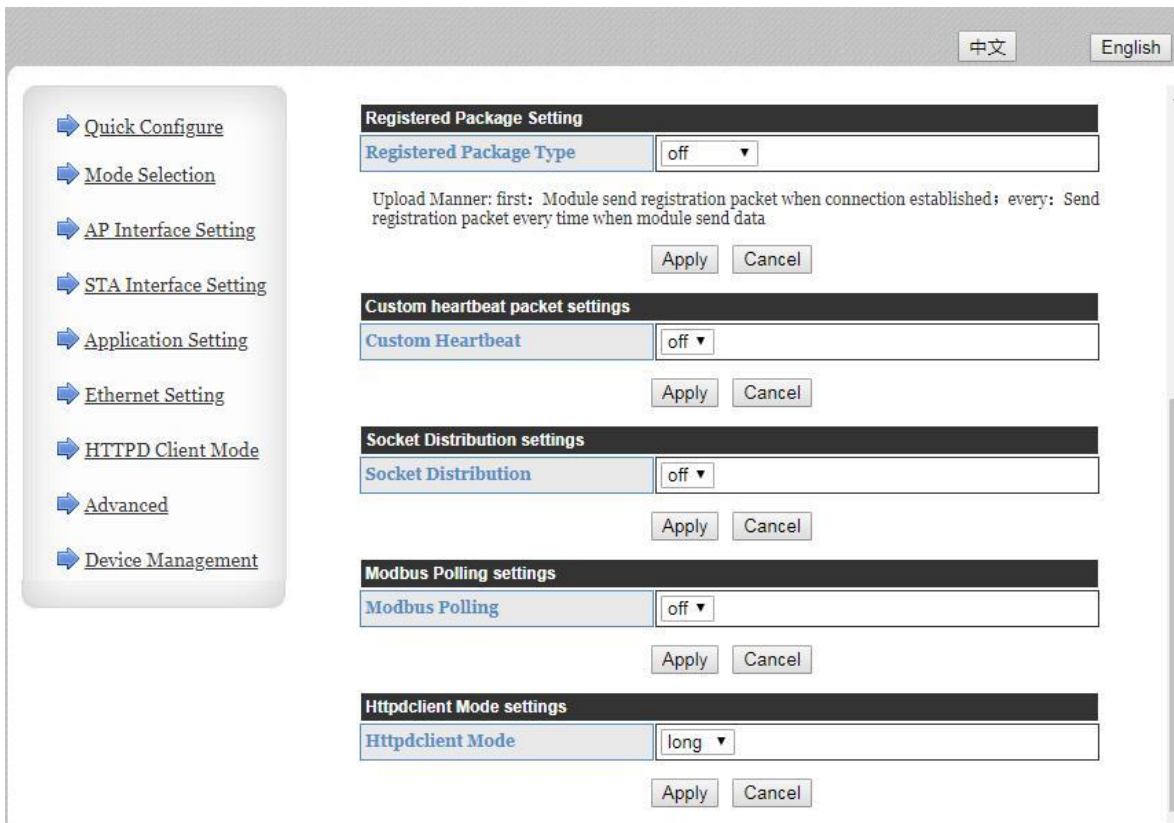
Apply Cancel

Network A Setting	
Mode	Server ▾
Protocol	TCP ▾
Port	8899
Server Address	10.10.100.100
MAX TCP Num. (1~24)	24
TCP Time out (MAX 600 s)	0
TCP connection password authentication	Disable ▾

Socket B Setting	
Open the SocketB function	on ▾
Protocol	TCP ▾
Port	18899
Server Address	10.10.100.100
TCPB Time out (MAX 600 s)	0

Apply Cancel

Picture 3

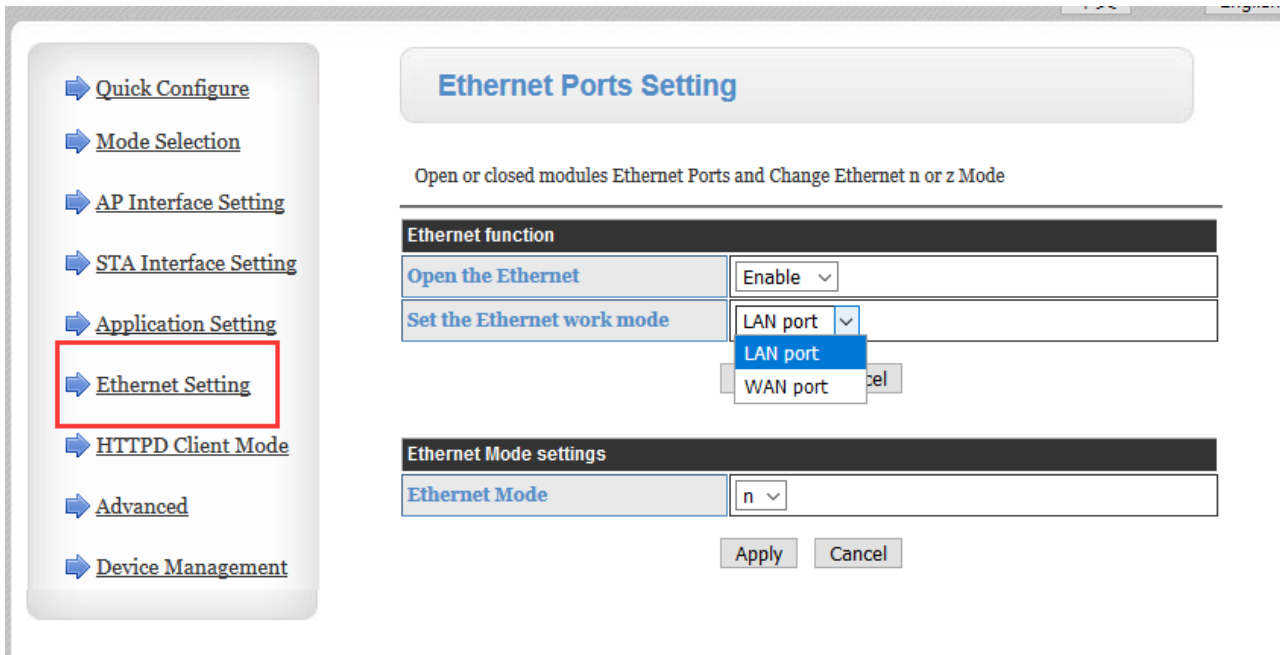


The screenshot shows the USR IOT web interface with a sidebar menu on the left and a main settings area on the right. The sidebar menu includes: Quick Configure, Mode Selection, AP Interface Setting, STA Interface Setting, Application Setting, Ethernet Setting, HTTPD Client Mode, Advanced, and Device Management. The main settings area contains several sections, each with a dropdown menu and 'Apply'/'Cancel' buttons:

- Registered Package Setting**: Registered Package Type (off)
- Custom heartbeat packet settings**: Custom Heartbeat (off)
- Socket Distribution settings**: Socket Distribution (off)
- Modbus Polling settings**: Modbus Polling (off)
- Httpdclient Mode settings**: Httpdclient Mode (long)

Each section also includes a brief description of the setting's function.

8. Ethernet Setting, W610 has one ethernet port. This port can be worked as LAN port or WAN port.
 LAN Port: It supports the data transmission between ethernet to serial or wifi.
 WAN Port: W610 can be used as secondary router which is convenient for users to network



The screenshot shows the USR IOT web interface with the 'Ethernet Setting' option highlighted in the sidebar menu. The main settings area is titled 'Ethernet Ports Setting' and includes the following sections:

- Ethernet function**: Open the Ethernet (Enable), Set the Ethernet work mode (LAN port)
- Ethernet Mode settings**: Ethernet Mode (n)

The 'Set the Ethernet work mode' dropdown menu is open, showing options for LAN port and WAN port. The 'Ethernet Mode' dropdown menu is also open, showing options for n and z.

9. HTTPD Client Mode

- ➡ [Quick Configure](#)
- ➡ [Mode Selection](#)
- ➡ [AP Interface Setting](#)
- ➡ [STA Interface Setting](#)
- ➡ [Application Setting](#)
- ➡ [Ethernet Setting](#)
- ➡ [HTTPD Client Mode](#)
- ➡ [Advanced](#)
- ➡ [Device Management](#)

HTTPD-Client Mode

In HTTPD_Client mode, set the relevant parameters of HTTP

Note: HTTPD Client mode is used to communicate with HTTP Server. It encapsulate the serial data to be HTTP protocol data, then send to HTTP Server.

HTTPD Header Set Mode	new ▾
HTTPD Server address	10.10.100.200
HTTPD Server port	80
HTTPD Request Type	GET ▾
HTTPD Header path	/abcd
Custom HTTP Header	Content-type:text/html;charset=utf-8

10. Advanced, USR-W610 supports port mapping. It only works at STA mode or ethernet port sets as WAN.

- ➡ [Quick Configure](#)
- ➡ [Mode Selection](#)
- ➡ [AP Interface Setting](#)
- ➡ [STA Interface Setting](#)
- ➡ [Application Setting](#)
- ➡ [Ethernet Setting](#)
- ➡ [HTTPD Client Mode](#)
- ➡ [Advanced](#)
- ➡ [Device Management](#)

Advanced Setting

Set the module of some advanced features

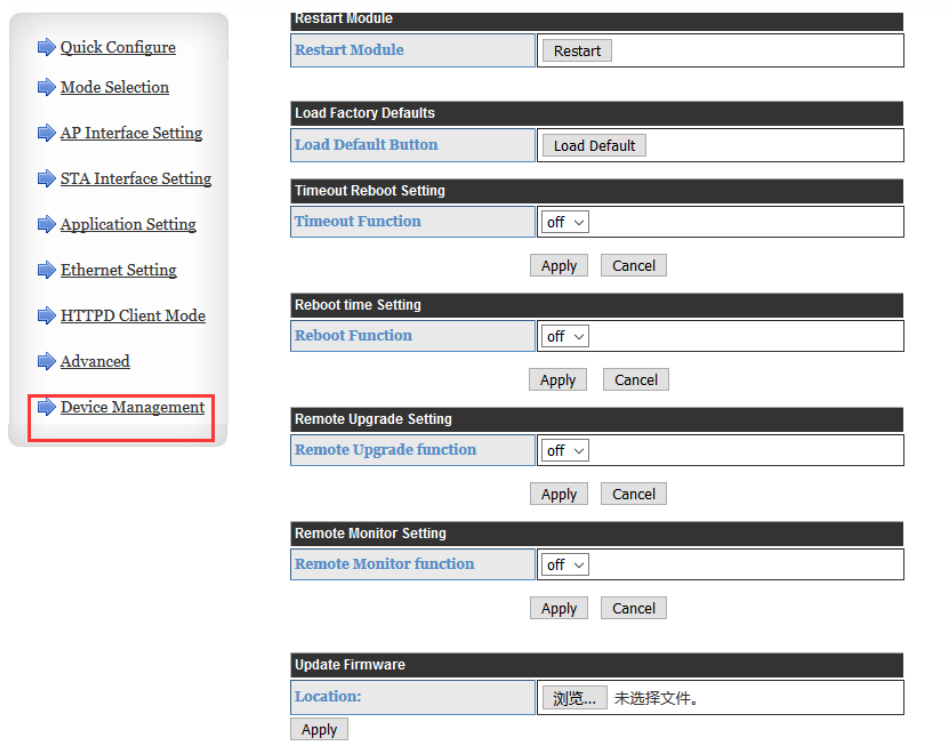
Port mapping set	
Port mapping function	Enable ▾
External port (0~65535)	51968
Internal port (0~65535)	80
Port mapping time interval (0 ~ 1000) seconds	300

Note: this is used to get port forwarding from router, then to mapping the port to module

Apply
Cancel

11. Device Management, it includes Restart, Timeout Reboot Setting, Reboot time setting, update firmware.

Remote Monitor Setting, it used for monitor the flow of SIM card or update firmware by remote. Please contact sales if you wanna use this function of ‘ Remote Monitor Setting’.



- Quick Configure
- Mode Selection
- AP Interface Setting
- STA Interface Setting
- Application Setting
- Ethernet Setting
- HTTPD Client Mode
- Advanced
- Device Management**

Restart Module

Restart Module

Load Factory Defaults

Load Default Button

Timeout Reboot Setting

Timeout Function

Reboot time Setting

Reboot Function

Remote Upgrade Setting

Remote Upgrade function

Remote Monitor Setting

Remote Monitor function

Update Firmware

Location: 未选择文件。

Company: Jinan USR IOT Technology Limited

Email: Sales@usrriot.com

