

5.8GHz Wireless Video Data Link Module User Guide

Please be noted:

Because the 5.8GHz Wireless Video Data Link module size is very small, its self-heat dissipation capability is limited. Poor thermal management will degrade wireless performance. Therefore, an external heat dissipation solution must be applied to the module during working.

1. 5.8GHz Wireless Video Data Link Module Web UI

The web UI address is the IP address of the device, for example, if the IP address of the device is 192.168.1.11, then the web UI address is <http://192.168.1.11/>.

The default IP address for the 5.8GHz Wireless Video Data Link module is 192.168.1.12 or 192.168.1.11.

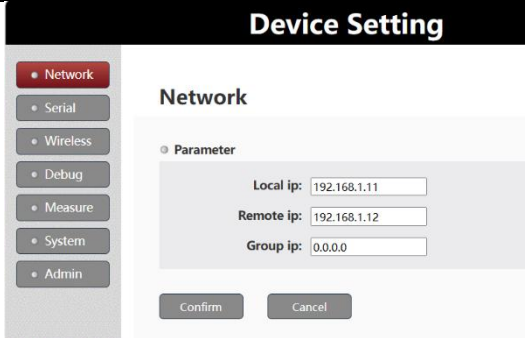
The default login user name: [admin](#)

The default login password: [admin](#)

Sometimes, customer may modify the IP address of the device and forget it, then you can use <http://192.192.192.192/> to visit the web UI to set the IP address again, login user name/password is the same as <http://192.168.1.11/>.

Important Note: After changing any configuration parameters via the Web UI, the hardware system **MUST** be restarted for the modified settings to take effect.

2. Network Page

	• Local IP: 5.8GHz Wireless Video Data Link's own IP address. • Target IP: 5.8GHz Wireless Video Data Link features 1 data serial port and 1 SBUS interface. When serial and SBUS data collected by the 5.8GHz Wireless Video Data Link needs to be transmitted over the network to another remote 5.8GHz Wireless Video Data Link, set the remote device's IP address here. The collected data will then be output through the serial port and SBUS interface of the remote 5.8GHz Wireless Video Data Link at the specified Target IP. The remote IP can be set to three types of addresses: UDP on-demand, broadcast, and multicast 192.168.1.255 → Indicates transmission via UDP broadcast mode 192.168.1.x → Indicates UDP on-demand transmission 224.0.0.x → Indicates transmission via UDP multicast • Group IP: When a device in the wireless network uses UDP multicast transmission, all participating receiving devices must configure this field with the same multicast IP address to receive data. For details, refer to the UDP Multicast protocol documentation.
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Device Setting

- Network
- Serial
- Wireless
- Debug
- Measure
- System
- Admin

Serial

Uart
Sbus

● **Base parameter**

Protocol: Udp ▾

Baudrate: 115200 ▾

Parity: None ▾

Maximum gap: 10 ms

Maximum packet: 400

● **Udp parameter**

Remote ip: 192.168.1.12

Remote port: 8090

Listening port: 8090

Confirm
Cancel

[Base Parameter]

Protocol: Set the transmission protocol (Udp/Tcp/Both) for the corresponding interface

Baud Rate: Set the baud rate of the data serial port (no configuration required for Sbus interface)

Parity: Set the verification method for the data serial port (no configuration required for Sbus interface)

Maximum gap(ms): Sets the maximum sending interval for receiving data on the serial port, used to capture the end of the serial port data frame. It is recommended to configure it to be slightly smaller than the actual transmission interval (no configuration is required for the Sbus interface).

Maximum packet: Set the maximum frame size for data received on the serial port. When serial port data equal to or greater than this value is received, it will be considered as the end of a frame and forwarding will begin (no configuration is required for the Sbus interface).

[Udp parameters]

Remote IP: When data needs to be sent to different remote devices via serial and Sbus interfaces, this option can be modified to specify the destination. If this option is not modified, it will default to the setting of the "Remote IP" option on the "Network Page".

Remote port: UDP transmission sending port (data serial port and Sbus interface should be configured with different port numbers)

Listening port: UDP transmission receiving port (data serial port and Sbus interface should be configured with different port numbers)

[Tcp parameters]

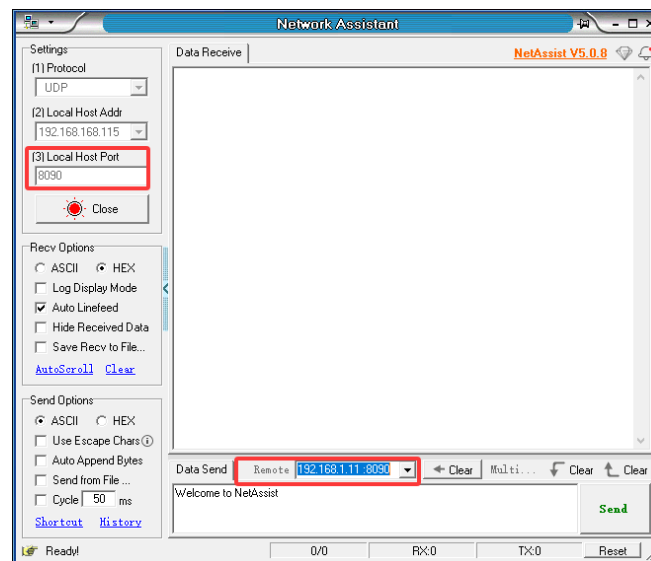
Listening port: TCP Server listening port (data serial port and Sbus interface should be configured with different port numbers)

Note:

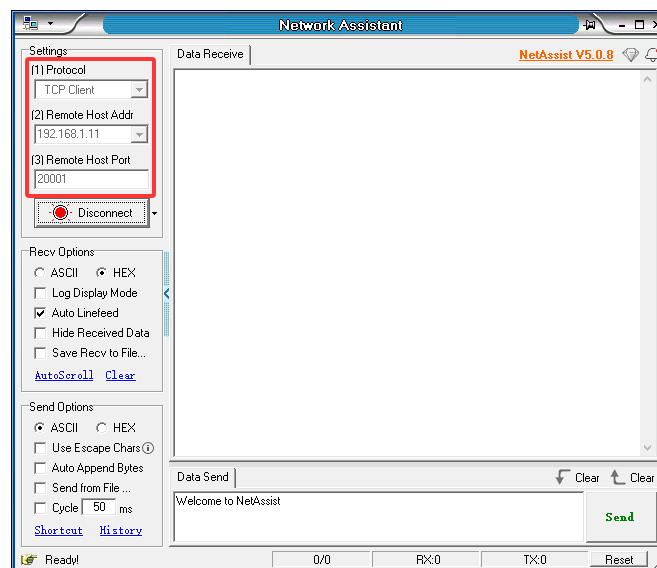
When configuring the remote IP to use UDP broadcast mode for transmission, ensure that the values for the

In addition to supporting the default shipment's serial port transparent transmission function, the data serial port and Sbus interface can also achieve network-serial port data/Sbus interface forwarding. They support UDP/TCP protocols for data transmission, and different interfaces are distinguished by port numbers.

When using UDP transmission, the external device (PC) needs to create a UDP service. The local and remote port numbers of the UDP service must correspond to the "Target Port" and "Listening Port" in the 5.8GHz Wireless Video Data Link device, respectively. After receiving serial port data, the 5.8GHz Wireless Video Data Link device will actively send this data to the "Target IP" device, which must be configured as the IP address of the external device (PC). After the external device (PC) sends UDP data to the target 5.8GHz Wireless Video Data Link device, the target 5.8GHz Wireless Video Data Link device will convert this data into serial port data and send it out.



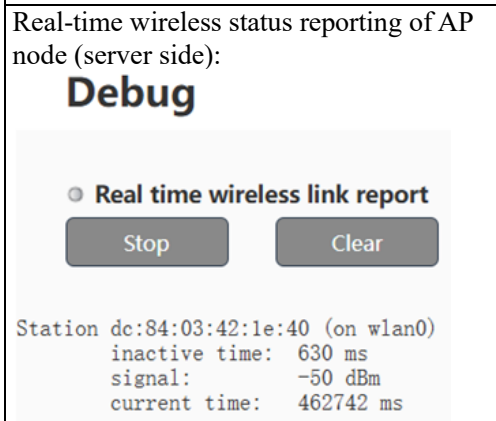
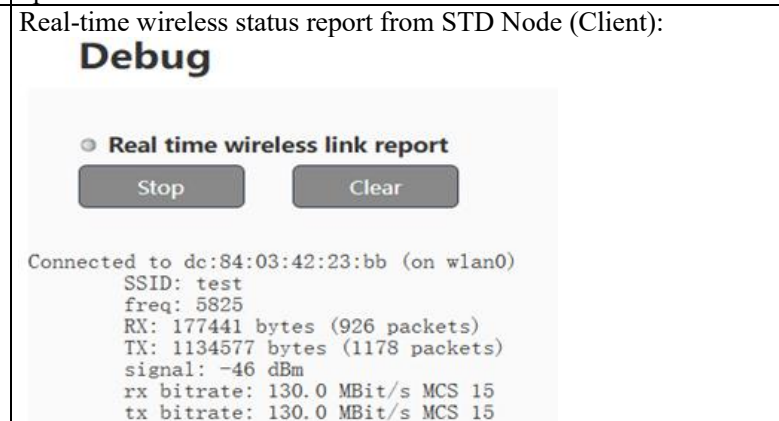
When using TCP transmission, the external device (PC) needs to create a TCP client and connect to the TCP Server of the 5.8GHz Wireless Video Data Link device (via IP and port). Upon receiving serial port data, the 5.8GHz Wireless Video Data Link device will proactively send this data to all connected TCP clients (external PC devices). After the external device (PC) sends data to the 5.8GHz Wireless Video Data Link device, the 5.8GHz Wireless Video Data Link device converts this data into serial port data and sends it out.



4. Wireless Page

	Device type: Wireless mode configuration, either as a STD node (client) or an AP node (server). SSID: Service Set Identifier (abbreviated as hotspot name). Channel: List of supported 5.8G wireless channels. Note: A. Only STD nodes and AP nodes with the same SSID can be connected. B. Only AP nodes can configure the Channel
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5. Debug Page

	The debug page is used to view real-time wireless feedback information. After entering the Debug page, the browser will perform a Websocket handshake with the 5.8GHz Wireless Video Data Link. If the handshake is successful, the browser will print "Websocket connect success." indicating a successful handshake; otherwise, it will display "Websocket connect failed, please refresh web page and try again!" At this time, you need to re-enter the Debug page to perform a new handshake until the prompt "Websocket connect success" appears, then you can proceed with subsequent operations.
Real-time wireless status reporting of AP node (server side): 	Real-time wireless status report from STD Node (Client): 

6. Measure Page

	This page is used to invoke the built-in iperf3 program for speed testing (UDP mode). After entering the speed measurement page, the browser will perform a Websocket handshake with the 5.8GHz Wireless Video Data Link. If the handshake is successful, the browser will print "Websocket connect success." indicating a successful handshake; otherwise, it will display "Websocket connect failed, please refresh the web page and try again!" At this time, you need to re-enter the Measure page to perform a new handshake until the prompt "Websocket connect success" appears, then you can proceed with subsequent operations. Note: For detailed speed measurement operations, please refer to iperf3 software tool.
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7. System Page

System - Information version: v1.0 - Update Upload file: 选择文件 未选择文件 Upload Reboot	This page is used to view the firmware version of the 5.8GHz Wireless Video Data Link system software and update the software firmware through the Web.
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8. Management Page

Admin User Password User Name admin Password Confirm Password Change Cancel
