

Industrial M4 serial-to-Etherent products WebSocket function

File Version: V1.0.0

Overview

This manual is to introduce M4 series serial-to-Ethernet products WebSocket function.

1.Introduction

M4 series serial-to-Ethernet products support WebSocket function which can achieve real-time interaction between serial port and Web Server and display user data on Web Server. Application diagram as follow:



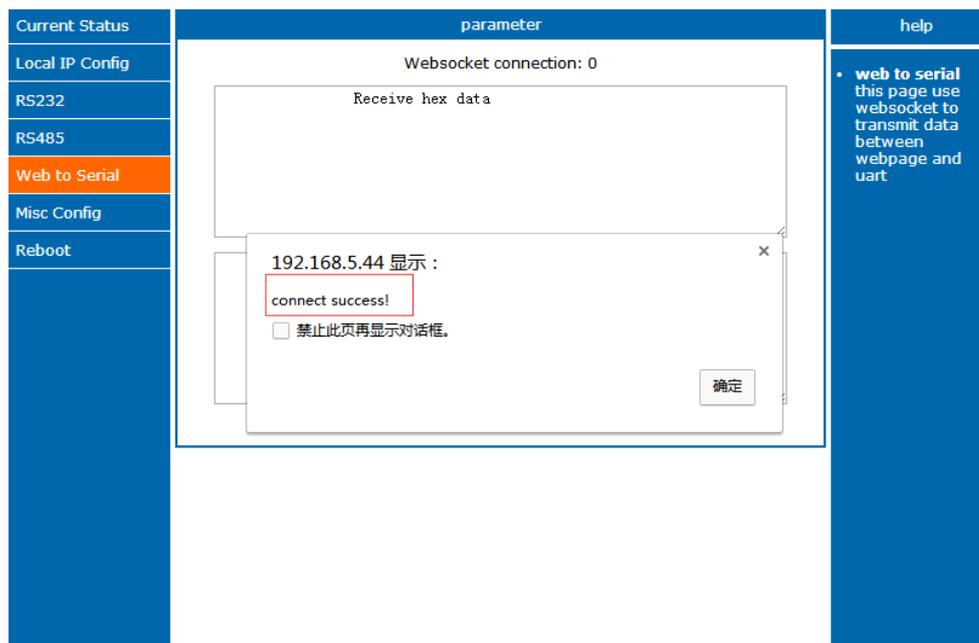
2.Enable function

Take USR-TCP232-410s as example to enable and test the WebSocket function.

Step 1: Power the 410s, connect 410s Ethernet interface to PC directly or to same router as PC (If user connects 410s Ethernet interface to same router as PC, user needs to configure module to DHCP mode or modify static IP in same network segment as router and PC.) and connect 410s serial port to PC.

Step 2: Enter 410s Web Server by 410s IP address and login with username and password (Default settings both are admin).

Step 3: Click 'Web to Serial' to enter WebSocket function web page and display 'connect success!' means enable function successfully.



3.Data transmission test

After entering WebSocket web page, user can download and run our software **USR-TCP232-Test-V1.3.exe** to test data transmission.



Serial to Web:

The screenshot shows the USR IOT Web to Serial interface on the left and the USR-TCP232-Test software on the right. In the Web to Serial interface, the 'Websocket connection' is 0. The 'Receive hex data' section shows 'Receive HEX: 0x53 0x65 0x72 0x69 0x61 0x6c 0x20 0x64 0x61 0x74 0x61'. The 'Web data' section is empty. In the USR-TCP232-Test software, the 'COM port data receive' section is empty. The 'Serial data' section has a 'Send' button. A red arrow points from the 'Send' button in the software to the 'Receive HEX' data in the Web to Serial interface.

Web to serial:

The screenshot shows the USR IOT Web to Serial interface on the left and the USR-TCP232-Test software on the right. In the Web to Serial interface, the 'Websocket connection' is 0. The 'Receive hex data' section shows 'Receive HEX: 0x53 0x65 0x72 0x69 0x61 0x6c 0x20 0x64 0x61 0x74 0x61'. The 'Web data' section is empty. In the USR-TCP232-Test software, the 'COM port data receive' section shows 'Web data' and 'Web data'. The 'Serial data' section has a 'Send' button. A red arrow points from the 'Web data' in the software to the 'Web data' in the Web to Serial interface.

4.Contact Us

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5.Disclaimer

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6.Update History

2018-03-22 V1.0.0 established.