This is a multi-functional device data acquisitor / IoT gateway with 4-ch RS485 and an Ethernet port (PoE version optional), small in size, easy to install, and cost-effective. It is suitable for applications like data acquisition, IoT gateway, safety & security IoT, and intelligent instrument monitoring, meeting various application scenarios.

Specifications

Model	4-CH RS485 TO ETH (B)	4-CH RS485 TO POE ETH (B)			
Product Type	Serial server, Modbus Gateway, MQTT Gateway				
Basic Function	Bi-directional transparent data transmission between RS485 and Ethernet				
Communication Interface	RS485 port × 4, Ethernet port × 1				
Dower Supply	DC 6 ~ 45V screw terminal				
Power Supply	Without PoE	With PoE			
Isolation Protection	Power isolation, Signal isolation				
	COMMUNICATION				

Eth ann at	Common Ethernet Port	RJ45 with PoE support, IEEE 802.3af compliant			
Ethernet	10 / 100M auto-negotiation RJ45 connector, 2 KV surge protection				
UART Port	Isolated RS485 (the 4 channels can receive and transmit independently at the same time)				
	UART				
Baud Rate	300 ~ 115200 bps				
Parity Bit	none, odd, even, mark, space				
Data Bit	5 ~ 9 bits				
Flow Control	N/A				
	SOFTWARE				
Protocol	ETHERNET, IP, TCP, U	DP, HTTP, ARP, ICMP, DHCP, DNS			
Configuration	host, web browser, d library	evice management functions			

Communication Method	TCP/IP direct communication, VCOM			
Operating Mode	TCP server, TCP client (coexisting with TCP server), UDP, UDP multicast			
OTHERS				
Operating Temperature	-40℃ ~ 85℃			
Humidity Range	5% ~ 95% relative humidity			
Dimensions	L × W × H: 91.0 × 64.5 × 24.2 mm			

Hardware Description





Indicator Description				
PWR	Power indicator			
NET	Network indicator, blinking when connected to Ethernet			
LINKX	Lights up when establishing channel X connection			
ACTX	Lights up when channel X is transmitting data			

Software Feature

• Support TCP server, TCP client, UDP mode, and UDP multicast. When used as a TCP client, it also supports TCP server functions. It supports

30 TCP connections as a TCP server and 7 destination IPs as a TCP client.

- The baud rate supports 1200~115200bps, the data bit supports 5~9 bits, and the parity bit can be in five ways: no parity, odd parity, even parity, mark, and space.
- Supports the function of sending MAC address on device connection, which is convenient for cloud management of devices.
- Provides a secondary development kit DLL development library for searching and configuring devices on the computer side.
- Support Web browser configuration, support DHCP to obtain IP dynamically, and DNS protocol to connect domain name server address.
- Support cloud remote search for devices, configure device parameters, and upgrade device programs.
- Support viewing the TCP connection status, and the data sending and receiving of the serial port. The virtual serial port also supports the monitoring function.

Note: This module is four channels, and each channel enjoys the above functions separately.

Advanced Software Function

- Support Modbus gateway function, support Modbus RTU to Modbus TCP. It can support storage-type Modbus, which can automatically collect and store device data; it also supports non-storage-mode Modbus gateways.
- Support multi-host function: In the query mode of one question and one answer, it supports the network port to allow multiple computers to access the same serial port device at the same time.

- Support MQTT gateway function.
- Support JSON to Modbus RTU and 645-meter protocol, support upload data in HTTP POST, HTTP GET format.
- Support NTP protocol to obtain network time, which is used for serial port output, and the latter is used for protocol content upload.
- Supports custom heartbeat package and registration package functions: It can facilitate communication with the cloud and device identification.
- Supports the function that TCP requires password authentication to establish a connection to ensure connection security.
- Support the data transmission and delivery function with HTTP, and the cloud can directly use the GET command of HTTP to communicate with the serial port of the device.

Applications

- For connecting the device and the cloud terminal as the IoT gateway.
- Electricity, smart instruments, and energy consumption monitor.
- Remote monitoring and program download for various automation PLCs.
- Various configuration software and equipment communication interfaces.
- Networking of equipment in the field of access control and security.

Quick Test

Hardware Connection

Here is an example of 4-CH RS485 TO POE ETH (B). 4-CH RS485 TO ETH (B) is connected in the same way. The following connection diagram is for testing purposes only, if the actual application needs to consider the use of the environment to ensure that the module can work properly.

Generally, a serial port server typically requires a connection to power, a serial port, and an Ethernet cable. For power, directly connect the positive and negative terminals. As for the serial port, it needs to be connected based on the user's serial device. Connect 485-1 A to 485-2 A, and 485-1 B to 485-2 B. For the Ethernet connection, use a standard Ethernet cable. You can either directly connect it to a computer or route it through a switch to connect to

the network.



Software Installation

Vircom can be used to configure the parameters such as the device IP and create the virtual serial port. If there is no serial port function, you can download the non-installation config software.

- VirCom en
- Virtual-serial-port

Driver installation needs to be decompressed, double-click the software to install, if the virtual serial port in Vircom is not displayed, restart and check again.

Examples

TCP Communication

Software Preparation

- <u>Vircom</u>
- <u>Sscom</u>

Steps

After Vircom is installed and the device hardware is connected, run the software as shown in the figure, and then click on "Device Management" as shown in the figure. It is very convenient to use Vircom to search a nd configure device parameters in different network segments, as long a s the device and the computer running Vircom are under the same switch.



UART to ETH and ETH to UART of the serial server and the data transparent forwarding function is shown below:



In addition, you need to open another serial assistant window as the TCP client. Enter the target IP as the IP of the serial server (192.168.1.200 and 192.168.1.201), the target port 4196, and click "Open". As shown below:

TV-	Name	Dev IP	Loc., Dest IP	Work	TCP	Virtual	Vircom St.	Dev ID	TX.	RX.	
Su	WSDEV	192.168.1.200	4196 192.168.1.3	TCP Ser	Not	Haven't	Not Linked	6FD794A7	0	0	
											Auto Sear
											Add Manua
											Search Se
											P2P Devic
											Edit Devic
											Search Li
											Back
										-	
ice Se	ttinos										
ice Se	ettings										
ice Se	e Info		Network				Advance	ed Settings			
ice Se Device Virtua	e Info al Serial N	iot Use 🔄	Network IP Mode	Static			Advance DNS Se	ed Settings	8	. 8	4 . 4
Device Device Virtua Dev T	e Info al Serial N ype	iot Use 💌	Network IP Mode IP Address	Static	168 . 1	• 1 . 200	Advance DNS Se Dest. M	ed Settings rver IP	8 Dynar	8 . nic	4 . 4
Device Virtua Dev T Dev N	e Info al Serial N ype N lame N	ot Use 💌	Network IP Mode IP Address Port	Static 192 1 4196	168 . 1	<u> </u>	Advance DNS Se Dest. M Transfer	ed Settings rver IP	8 Dynar None	8 . nic	4 . 4
Device Virtua Dev Tj Dev N Dev II	e Info al Serial N jype larme W D 22	ot Use	Network IP Mode IP Address Port Work Mode	Static 192 . 1 4196 TCP Ser	168 . 1 ver	• 1 . 200 •	Advance DNS Se Dest. M Transfer Keep Ali	ed Settings rver IP ode Protocol ve Time	8 Dynar None 60	8 . nic	4 . 4
Device Virtua Dev T Dev N Dev III Firmw	e Info al Serial N jype karme M D 23 vare Ver V	ot Use VSDEV0001 8586FD794A7 1.452	Network IP Mode IP Address Port Work Mode Net Mask	Static 192 . 1 4196 TCP Ser 255 . 2	168 . 1 ver 255 . 25	• 1 . 200 • 55 . 0	Advance DNS Se Dest. M Transfer Keep Ali Reconne	ed Settings rver IP ode Protocol ve Time	8 Dynar None 60 12	8 . nic	4 . 4
Device Virtua Dev T Dev N Dev II Firmw	e Info al Serial N jype lame M D 24 vare Ver V	ot Use VSDEV0001 8586FD794A7 1.452 	Network IP Mode IP Address Port Work Mode Net Mask Gateway	Static 192 4196 TCP Ser 255 192	168 . 1 ver 255 . 25	1 200 • 55 0 1 1	Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por	ed Settings rver IP ode Protocol ve Time et Time t	8 Dynar None 60 12 80	8 . nic	4 . 4
Device Virtua Dev T Dev N Dev ID Firmw Funct	e Info al Serial N ýpe W karne W D 21 vare Ver V tion of the de	Iot Use VSDEV0001 8586FD794A7 1.452 evice	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domai	Static 192 4 4196 TCP Ser 255 2 192 1 192 168	168 . 1 ver 255 . 25 168 . 1 1.3		Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por	ed Settings rver IP Protocol ve Time et Time t pup IP	8 Dynar None 60 12 80 230	8 . nic	4 . 4 (s (s 76 . 1
Device Virtua Dev T Dev II Firmw Funct	e Info al Serial N lype lame M D 24 vare Ver V ion of the de eb Downloar	ot Use VSDEV0001 8586FD794A7 1.452 evice d	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domain Dest. Port	Static 192 1 4196 TCP Ser 255 2 192 1 192 168 4196	168 . 1 ver 255 . 25 168 . 1 1.3	• 1 . 200 • 55 . 0 1 . 1 Local	Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por UDP Gre	ed Settings rver IP Protocol ve Time et Time t sup IP ster Pkt:	8 Dynar None 60 12 80 230	8 . nic	4 . 4
ice Se Device Virtua Dev T Dev II Dev II Firmw Funct Funct	e Info al Serial N jype lame M D 24 ware Ver V ion of the de the Download IS System	ot Use VSDEV0001 8586FD794A7 1.452 evice d	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domain Dest. Port	Static 192 4196 TCP Ser 255 192 192 192 192 192 192 192 192 192 193	ver 255 : 25 168 : 1 1.3	• 1 200 • 55 0 1 1 Local	Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por UDP Gri Regis	ed Settings - rver IP Protocol ve Time et Time t tup IP ster Pkt: art for no dat	8 Dynar None 60 12 80 230	8 . nic 90	4 . 4 (s (s 76 . 1 F AS
ice Se Device Virtua Dev T Dev N Dev II Firmw Funct Funct Funct R DP R	e Info al Serial N ype W barne W D 21 ware Ver V tion of the de th Downloar IS System SAL_COM P	Int Use VSDEV0001 S5B6FD794A7 1.452 Svice d Protocol	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domain Dest. Port Serial	Static 192 1 4196 TCP Ser 255 2 192 1 192 168 4196	168 . 1 ver 255 . 25 168 . 1 1.3	• 1 . 200 • 55 . 0 1 . 1 Local	Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por UDP Gri Regis Resta	ed Settings rver IP Protocol ve Time et Time t ster Pkt: art for no dat le send para	8 Dynar None 60 12 230 230	8 nic 90 every	4 . 4 (s (s (s (s (s (s (s (s) (s))))))))))
ice Se Device Virtua Dev T Dev N Dev I Firmw Funct Funct R Dev I R R R R R R R R R	e Info al Serial N larme M D 21 vare Ver V tion of the de the Downtoar IS System SAL_COM P Dathus TCP 1	Iot Use	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domain Dest. Port Serial Baud Rate	Static 192 1 4196 TCP Set 255 2 192 1 192 168 4196 115200	ver 255 25 168 1		Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por UDP Gr Regis Rest: Rest: Rest:	ed Settings rver IP Protocol ve Time et Time t sup IP ster Pkt: art for no dat le send para	8 Dynar None 60 12 80 230 230 a meter	8 nic 90 every every	4 4 (s) (s) 76 1 F AS 300 S4 5 M
ice Se Device Virtua Dev T Dev N Dev IC Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firm Firm Firm Firm Firm Firm Firm Firm	ettings el Info al Serial N ype 24 tame 26 vare Ver 27 tion of the de to Downloar IS System SAL_COM P odbus TCP 1	ot Use	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domain Dest. Port Serial Baud Rate Data Bits	Static 192 1 4196 TCP Ser 255 2 192 1 192 168 4196 115200 8	168 - 1 ver 255 - 25 168 - 1 1.3	. 200	Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por UDP Gri Regis Rest: Rest:	ed Settings - rver IP Protocol ve Time et Time t sup IP ster Pkt: art for no dat le send para	8 Dynar None 60 12 230 230 a ameter ced Se	8 nic 90 every every ttings.	4 . 4 (s (s 76 . 1 76 . 1 76 . 1 5 M
ice Se Device Virtua Dev T Dev N Dev II Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firmw Funct Firma Firm Firm Firm Firm Firm Firm Firm Firm	e Info e Info al Serial N ype 24 kame 26 b 27 vare Ver 27 ion of the de eb Download IS System SAL_COM P odbus TCP 1 mal Common ICP Support	ot Use	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domain Dest. IP/Domain Dest. Port Serial Baud Rate Data Bits Parity	Static 192 . 1 4196 TCP Ser 255 . 2 192 . 1 192 . 168 4196 115200 8 None	168 . 1 ver 155 . 25 168 . 1 1.3	• • •	Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por UDP Gri Regis Rest E Rest	ed Settings rver IP Protocol ve Time t t ster Pkt: art for no dat le send para More Advac	8 Dynar None 60 12 80 230 230 a meter ced Se	8 nic 90 every every every	4 . 4 (s (s (s (s (s (s (s (s (s (s (s))))))))
Device Se Device Virtua Dev T Dev N Dev II Firmw Funct Funct R Dev R Dev	ettings e Info al Serial N ype Lame W D 21 ware Ver V tion of the de the Downtour IS System SAL_COM P odbus TCP I mail Common ICP Support rease E-town	Int Use	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domain Dest. Port Serial Baud Rate Data Bits Parity Stop Bits	Static 192 1 4196 TCP Ser 255 2 192 1 192 168 4196 115200 8 None 1	168 1 ver 255 25 168 1 1.3	✓ ✓	Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por UDP Gri Regis Rest Rest E Enab	ed Settings rver IP Protocol ve Time t ster Pkt: art for no dat le send para More Advac	8 Dynar None 60 12 80 230 230 a meter ced Se	8 nic 90 every every ttings	4 4 (s (s (s (s (s (s (s (s (s (s (s) (s))))))))
In the second se	ettings e Info al Serial N ype lame M D 24 vare Ver V ion of the de eb Downloar IS System SAL_COM P odbus TCP 1 onal Common ICP Support orage Exten	Int Use	Network IP Mode IP Address Port Work Mode Net Mask Gateway Dest. IP/Domain Dest. Port Serial Baud Rate Data Bits Parity Stop Bits	Static 192 4196 TCP Ser 255 192 192 192 4196 192 192 192 192 8 None 1	168 1 ver 255 25 168 1 1.3	✓ ✓	Advance DNS Se Dest. M Transfer Keep Ali Reconne Http Por UDP Gri Regis F Regis Rest: F Enab	ed Settings rver IP Protocol ve Time t tup IP ster Pkt: art for no dat le send para More Advac	8 Dynar None 60 12 230 230 a meter Sed Se	8 nic 90 every every every	4 4 (s (s 76 1 F AS 300 S 5 M



If you input "TCPClient:Waveshare_RS485_1" in SSCOM1, which is set as TCPClient, and click Send, the data will be transferred to the RS485 interface through the network port of the serial server and then sent to another TCPClient. Then it will be displayed in SSCOM2 of the serial debugging assistant; conversely, input "TCPClient:Waveshare_RS485_2" in SSCOM1 and click Send to send it to SSCOM2, and it will be displayed.

Virtual Serial Port Test

SSCOM2 in the figure communicates directly with the serial port server through TCP. In order to enable the user's already developed serial port software to communicate with the serial port server, a virtual serial port needs to be added between the user program and the serial port server. As shown in the figure, Vircom, and user programs run on one computer, and Vircom virtualizes a COM port, making this COM port correspond to the serial port server. When the user program opens the COM communication, it can be sent to the user's serial device through the Vircom serial server. The following demonstrates this operation step:



Click the "UART management" in the Vircom interface, click "add", and then choose COM2. Among them, COM5 is the COM port that did not exist in the computer.

COM Number:	COM2	Client Mode Start Conne	ction Now: F	
Name This COM:	TEST			_
Serial Param Auto Adapt:	As Globle Setting(Def.) -	Dest. IP or Domain:	192.168.1.200	_
Vircom Work Mode:	Bind ID(Def.)	Dest. Port:	4196	
TCP Server Mode Listen Port:	22343	Vircom Register ID:		
Batch Create:		Vircom Login Key:		
Number of Batch Creation:	1	Heart Beat Pakcet:		
Batch Increase Mode:	IP Increase	Heart Beat Interval:	0	(s)

Then enter the device management, and double-click the device that needs to be bound to COM2. As shown in the figure, select COM2 in the "Virtual Serial Port" list in the upper left corner. Then click "Modify Settings", click "Restart Device" and return to the main interface of Vircom. It can be seen that COM2 has been connected to the device whose IP is 192.168.1.200. In this case, COM2 can be used instead of SSCOM2 for communication.

Manage(M) Co	t Device N fig(C) Vi	Vanagem iew(V) H	ent - elp(H	VirCom)				- u	~
Start St		evice	Seria	al About					
In Status	Co	om Nam	ie	COM Name	Туре	Device IP	Discription	Dev ID	
1 Connect	ed CO	OM2		TEST	Bind ID	192.168.1.2	Name :WSD	6FD794A	7
Information									
Information (2021-11-17, 15: (2021-11-17, 15) (2021-11-17, 15)	1:09] Cont 1:09] Cont 1:39] CON 1:38] Liste	nected to necting 22 Create en at port	192.1 192.1 okl 4196	168.1.200 ok. 168.1.200 . OK.					

Open SSCOM to simulate the user's serial port program, open COM2 (the virtual serial port above), open another SSCOM to simulate a serial port device, and open COM3 (hardware serial port). At this time, the data link sent by COM2 is as follows: COM2 —> Vircom —> the network port of the serial server —> the serial port of the serial server —> COM3.

Conversely, COM3 to COM2 can also transmit data: COM3 -> the serial port of the serial server -> the network port of the serial server -> Vircom -> COM2. As shown in the figure below, both parties send and receive data. The following figure shows how both sides send and receive data. If COM4 is replaced with a user serial device, COM5 can be used to communicate with

the user device.



MODBUS TCP Test

By default, the data between the serial port and network port is transparently transmitted. If you need to convert Modbus TCP to RTU, you need to select the conversion protocol as "Modbus TCP <--> RTU" in the device settings dialog box, as shown in the figure below. At this time, the device port automatically changes to 502. At this time, the user's Modbus TCP tool is connected to the IP port 502 of the serial server and the sent Modbus TCP command will be converted into an RTU command and output from the serial port. For example, if the serial port server network port receives the Modbus TCP command of 00 00 00 00 00 00 00 00 00 00 a, the serial port outputs the command of 01 03 00 00 00 a c5 cd.

Note: The serial port may send multiple 01 03 00 00 00 0a c5 cd commands because the default Modbus adopts the storage mode, which will automatically train the query commands. How to switch to non-storage mode will be explained later.

Device Info-		Network		Advanced Settings	né.		
Virtual Serial	COM2 -	IP Mode	Static •	DNS Server IP	8 . 8 . 4 .	4	
Dev Type		IP Address	192 . 168 . 1 . 200	Dest. Mode	Dynamic		
Dev Name	WSDEV0001	Port	502	Transfer Protocol	Modbus_TCP Protoc	ol -	
Dev ID	285B6FD794A7	[] Work Mode	TCP Server	Keep Alive Time	60	(s)	
Firmware Ver	V1.452	Net Mask	255 . 255 . 255 . 0	Reconnet Time	12	(\$)	
	1	Gateway	192 . 168 . 1 . 1	Http Port	80		
Function of the	e device	Dest. IP/Domain	192.168.1.3 Local IP	UDP Group IP	230 . 90 . 76 .	1	
C ONG COM	ioad.	Dest. Port	4196	Register Pkt:	Г	ASI	
M Lina ayse	an c	Serial		Restart for no d	ata every 300	Se	
M HEAL CUP	W Protocol	Baud Rate	115200 -	Enable send pa	rameter every 5	Mi	
	22.10.1010	Data Bits	Data Bits		More Advaced Settings		
M Secal Com	mnad	Parity	None	-		1	
C DHCP Sup	pod	Change and	4	Framing Rule			
Storage Ex	tend	Stop Bits		Max Frame Length	1300	(By	
Multi-TCP	Connection	Flow Control	None	Max Interval(Smalle	er will better) 3	(Ms	

If the user's Modbus TCP software is used as a slave station (Slave), it is necessary to select the conversion protocol, then change the working mode to the client, the destination IP to the IP of the computer where the Modbus TCP software is located, and the destination port to 502, as shown in the figure below:

IP Mode	Static	
IP Address	192 . 168 . 1	. 200
Port	4196	-
Work Mode	TCP Server	
Net Mask	255 . 255 . 255	. 0
Gateway	192 . 168 . 1	- 1
Dest. IP/Domain	192.168.1.3	Local IP
Dest. Port	4196	

WEB Configuration

Using Vircom, you can search and configure device parameters in different network segments. For Web configuration, you must first ensure that the computer and the serial server are in the same IP segment, and you need to know the IP address of the serial server in advance. But web configuration can be done on any computer without Vircom.

1. Enter the IP address of the serial server in the browser, such as <u>http://192.168.1.200</u>

Password: Please enter password.

4-CH RS485 TO POE ETH (B)

www.waveshare.com

2. Enter a password in Password: There is no login password set by default in the factory, you can enter a password at will, and click the Login button to log in. After setting the password to log in, the settings at "Modify webpage login password" will take effect:

	ESHARE						Logout	Chinese
Device Information	n							
Device Name	WSDEV0001		Firmware Version	V1. 452		Device MAC	28-66-6C-F4-91	-03
Network Settings								
Device IP	192.168.1.200		Device Port	4196		Device Web Port	80	
Work Mode	TCP Server	•	Subnet Mask	255 255 255 0		Gateway	192.166.1.1	
Destination IP/DNS	192 168 1 3		Destination Port	4196		IP mode	Static	÷
Serial Settings								
Baundrate	1200	٠	Databits	8	×	Parity	None	*
Stopbits	1	*	Flow control	None	•			
Advaced Settings								
No-Data-Restart	Disable	•	No Data Restart Time	300 second	5~1270	Reconnect-time	12	1~255 second
Milti-Host Settings	6							
Protocol	None	•	Instruction Time out	0 32-8000ms		Enable Multi-host	No	•
RS232/485/422 Conflict Time Gap	0 5~255ms							
NOTE: 1. Multi-host is	s always enabled w	ihen Pro	tocol is Modbus TCP to F	RTU: 2. Time out i	s always 0 when	Multi-host is disabled.		
3. Time out only can b	be set as mulitpy of	32.						
Modify Web Login	Key							
New Key			Input Key Again					
				Submit				

3. The serial server parameters can be modified on the web page that appears. For the relevant parameters, please refer to Table 4 for the meaning of the parameters.

4. After modifying the parameters, click the "Submit Modification" button.

5. If configuring and downloading MQTT and Jetson Modbus firmware overwrites the configuration interface web page file, resulting in the configuration web page not opening, follow these steps to re-download the web page file:

- Web File for 4-CH RS485 TO ETH (B).
- <u>Configuration Interface Web File</u> for 4-CH RS485 TO POE ETH (B).

• The interface web files are different for the two devices, so you need to download the corresponding files.

Webpage directly download mode Webpage directly in local PC:	
E:\FAQ-QUECTEL\RS485 TO ETH B 2043_waveshare_web_zx	▼
Special configs: Clear all	_
MB config MQTT config ISON config Reg packet	
Code file download mode Select code file:	
C:\firmware.bin	•
Download through the network	
Device IP address or domain: 192.168.10.61 Serial port: COM1	
Download port (Don't modify): 1092 Baundrate: 115200	
Device modual/type: 2003 DevID: 285FCAD56BAD Bind ID	
Flash size: 256 V KB	
Please close the opened webpage of the modual in the browser, before start download.	

Resource

Document

• RS485 TO POE ETH (B) MQTT And JSON User Manual

Software

- <u>Vircom</u>
- Virtual serial port control
- <u>SSCOM</u>
- TCPIP/UDP debug tool

Related Application

• RS485 TO ETH (B) Connect Alibaba Cloud And EMQX

FAQ

Question:What is the power of 4-CH RS485 TO POE ETH (B)?

Answer:

12V 96mA

Question:How to restore the factory setting of 4-CH RS485 TO POE ETH (B)?

Answer:

Press RESET for 5 seconds to complete the reset, the IP address of the two devices will become 192.168.1.254 and the name will become WSDEV0001 after the reset, then you can modify it manually.

Question:What should I do if I can't open the web configuration interface?

Answer:

Configuration download MQTT and other firmware such as Jetson Modbus overwrite the configuration interface web file and need to be downloaded again.

- <u>Configuration Interface Web File</u> for 4-CH RS485 TO ETH (B).
- <u>Configuration Interface Web File</u> for 4-CH RS485 TO POE ETH (B).

Webpage directly download mode Webpage directly in local PC:	
E:\FAQ-QUECTEL\RS485 TO ETH B 2043_waveshare_web_zx	▼
Special configs: Clear all	
MB config MQTT confic JSON confic Reg packet	
Code file download mode Select code file:	
C:\firmware.bin	
Download through the network	C Download through serial port
Device IP address or domain: 192.168.10.61	Serial port: COM1 🗸
Download port (Don't modify): 1092	Baundrate: 115200
Device modual/type: 2003	DevID: 285FCAD56BAD Bind ID
Flash size: 256 🗸 KB	,
Please close the opened webpage of the modual in the browser,	before start download.
Download	