

Waveshare RS485 TO ETH

Waveshare RS485 to Ethernet Converter User Manual

Model: RS485 TO ETH

1. INTRODUCTION

The Waveshare RS485 to Ethernet Converter (Model: RS485 TO ETH) is a device designed to facilitate communication between RS485 serial devices and an Ethernet network. It enables seamless data exchange, allowing RS485 devices to be integrated into modern IP-based systems. This manual provides essential information for the proper setup, operation, and maintenance of the converter.



Figure 1: Waveshare RS485 to Ethernet Converter with included power adapter. This image displays the Waveshare RS485 to Ethernet Converter unit alongside its power adapter. The converter features a black casing with green labels indicating DC 5V power input, Ethernet port, and RS485 screw terminals (A+, B-, GND). The power adapter is a standard wall plug type.

2. PRODUCT OVERVIEW AND FEATURES

The Waveshare RS485 to Ethernet Converter is built with a focus on performance and reliability. Key features include:

- M0 series 32-bit ARM processor for fast and efficient operation.
- 10/100M Auto-MDI/MDIX Ethernet interface, compatible with both cross-over and straight-through cables.
- Configurable RS485 baud rate from 600bps to 230.4Kbps, supporting None, Odd, Even, Mark, and Space parity options.
- Multiple working modes: TCP Server, TCP Client, UDP Server, UDP Client, and HTTPD Client (supports GET and POST).
- Flexible configuration options via webpage, AT commands, serial protocol, and network protocol.
- Support for customized heartbeat and registration packets for connection verification and device identification.
- Customizable webpage for module configuration.
- RFC2217-like protocol support for devices with changing serial settings.
- KeepAlive mechanism for detecting broken connections and automatic re-connection.

- Time-out reboot (no-data reboot) for long-term stable connections, with configurable reboot time.
- DNS domain name resolution and configurable DNS server.
- DHCP support for auto-obtained IP or static IP configuration.
- Firmware upgradable via the network.
- Hardware and software options for restoring to factory settings.
- Customizable MAC address.

3. SETUP

Follow these steps to set up your Waveshare RS485 to Ethernet Converter:

1. **Power Connection:** Connect a DC 5V power supply to the DC 5V input jack on the converter. The recommended input voltage is 5.0-7.0V.
2. **Ethernet Connection:** Connect an Ethernet cable from the converter's RJ45 port to your network switch or router. The converter supports 10/100M Auto-MDI/MDIX.
3. **RS485 Connection:** Connect your RS485 device to the green screw terminal block. Ensure correct polarity for A+ (positive), B- (negative), and GND (ground).
4. **Initial Configuration:** The device comes with default network settings. These are typically printed on a label on the bottom of the unit.



Figure 2: Bottom label of Waveshare RS485 to Ethernet Converter showing default network settings. The bottom of the converter unit displays a label with essential network configuration details: Model: RS485 TO ETH, Username: admin, Default IP: 192.168.0.7, Password: admin, MAC address, and Input power requirements (DC5-7V/500mA). The manufacturer's website, www.waveshare.net, is also listed.

For detailed setup instructions and advanced configurations, refer to the official Waveshare product wiki at www.waveshare.net.

4. OPERATING MODES

The converter supports various operating modes to suit different application requirements:

- **TCP Server:** The converter listens for incoming TCP connections from clients.
- **TCP Client:** The converter initiates a TCP connection to a specified server.
- **UDP Server:** The converter listens for incoming UDP packets.
- **UDP Client:** The converter sends UDP packets to a specified destination.
- **HTTPD Client:** The converter can act as an HTTP client, supporting GET and POST requests.

5. CONFIGURATION

The Waveshare RS485 to Ethernet Converter offers multiple methods for configuration:

- **Webpage Configuration:** Access the converter's built-in web interface using its IP address (default: 192.168.0.7) in a web browser. Use the default username 'admin' and password 'admin' for login.
- **AT Commands:** Configure the device using AT commands sent via the serial port.
- **Serial Protocol:** Utilize a dedicated serial protocol for configuration.
- **Network Protocol:** Configuration can also be performed over the network using specific protocols.

Firmware Upgrade: The device's firmware can be updated over the network, ensuring access to the latest features and improvements.

Factory Reset: The converter can be restored to its factory default settings via both software commands and a hardware reset button (Reload button).

6. SOFTWARE

Waveshare provides supporting software to assist with the use and configuration of the converter:

- **Module Configuration Software:** A dedicated application for configuring the converter's parameters.
- **TCP/UDP Testing Tool:** Software for testing TCP and UDP communication.
- **VCOM Virtual Serial Port Software:** Allows the Ethernet port to be mapped as a virtual serial port on a computer.

Example code for various platforms (e.g., host computer socket, VB, C++, Delphi, Android, iOS) is also available from the manufacturer.

7. SPECIFICATIONS

Selection Guide

Comparison	UART TO ETH	RS485 TO ETH	RS232/485 TO ETH
Processor	Cortex-M0	Cortex-M0	Cortex-M4 (up to 120MHz frequency)
Ethernet	RJ45 (10/100Mbps self-negotiation)		
	Protocol: IP, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTPD Client		
	Cache: TX 6Kbyte, RX 4Kbyte		Cache: TX 16Kbyte, RX 16Kbyte
Serial	UART	RS485	RS232+RS485 (allow to work at the same time)
	Baudrate: 600bps~460.8Kbps	Baudrate: 600bps~230.4Kbps	
	Hardware flow: NOT supported		Hardware flow: supported
	Data bit: 5, 6, 7, 8		
	Stop bit: 1, 2		
	Parity bit: None, Even, Odd, Space, Mark		
	Cache: RX 800byte		Cache: TX 2Kbyte, RX 2Kbyte
	Framing condition: 4 byte time interval, or 400 byte in length		Framing condition: 4 byte time interval, or customizable 0~1460 byte in length
Features	customized heartbeat packets, customized registration packets, customized webpage, RFC2217-like protocol, KeepAlive, timeout auto reboot, short connection, firmware upgrade via network		
			Modbus gateway, Websocket (webpage to serial)
Working Modes	TCP Server, TCP Client, UDP Server, UDP Client, HTTPD Client		
Client Count	on TCP Server mode, customizable 1~16 Clients		on TCP Server mode, supports 2-ch Socket, 8 Clients per ch
Configuration	Built-in webpage, Host computer config software, Serial commands		
Interface Protection	Power: reverse-proof, ESD protection, anti-surge		
	Ethernet: 1.5KV electromagnetic isolation		
		RS485: 2KV ESD protection, 2.2KΩ pull up/down registers	lightning-proof, over-current protection
Power Supply	3.3V/5V	5~7V	5~36V
Operating Current	150mA@5V	110mA@5V	86.5mA@5V
Temperature	Operating Temperature: -25~75°C		Operating Temperature: -40~85°C
	Storage Temperature: -40~105°C		
Dimensions	50.5mm × 22.6mm × 15mm	70mm × 63.6mm × 25mm	82.8mm × 85.7mm × 25mm

Figure 3: Technical specifications and dimension diagram for Waveshare RS485 to Ethernet Converter. A detailed diagram presenting the technical specifications for Ethernet, RS485, Power, and Environment, along with precise dimensions of the converter unit in millimeters. Key measurements like length, width, and height are indicated.

Waveshare RS485 to Ethernet Converter Specifications

Category	Parameter	Value
Ethernet	Connector	RJ45
	Communication Rate	10/100Mbps
	Interface Protection	1.5KV electromagnetic isolation
	Protocols	IP, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTPD Client
	TX/RX Cache	6Kbyte / 4Kbyte
RS485	Connector	Screw terminal (A+, B-, GND)
	Data Bit	5bit, 6bit, 7bit, 8bit
	Stop Bit	1, 2
	Parity Check	None, Odd, Even, Mark, Space
	Baudrate	600bps-230.4Kbps
	Interface Protection	2KV ESD protection, RS485 pull up/down resistors: 2.2KΩ
Power	Power Supply	5.0-7.0V (5V recommended)
	Operating Current	150mA (@5V)
	Power Consumption	<1W
	Interface Protection	Reverse-proof, ESD protection, anti-surge

Category	Parameter	Value
Environment	Operating Temperature	-25~75°C
	Storage Temperature	-40~105°C
Dimensions	Unit (L x W x H)	63.59mm x 41.13mm x 25.47mm (approximate, excluding mounting tabs)

8. TROUBLESHOOTING

If you encounter issues with your Waveshare RS485 to Ethernet Converter, consider the following:

- **No Network Connection:** Verify that the Ethernet cable is securely connected and that your network infrastructure (router/switch) is functioning correctly. Check the converter's network indicator lights.
- **Cannot Access Web Interface:** Ensure your computer's IP address is in the same subnet as the converter's default IP (192.168.0.7). If the IP has been changed, try to recall the new IP or perform a factory reset.
- **RS485 Communication Failure:** Double-check the RS485 wiring for correct A+ and B- polarity. Ensure the baud rate, data bits, stop bits, and parity settings on the converter match those of your RS485 device.
- **Power Issues:** Confirm that the power adapter is correctly connected and providing the specified DC 5V (5.0-7.0V) power.
- **Modbus Protocol:** Please note that this converter does **not** natively support Modbus protocol. If your application requires Modbus, additional software or gateway solutions may be necessary.
- **General Instability:** If the device experiences intermittent issues, consider performing a factory reset and reconfiguring it. Ensure the operating environment is within specified temperature ranges.

For more in-depth troubleshooting guides and technical support, visit the official Waveshare website.

9. MAINTENANCE

To ensure the longevity and reliable operation of your converter:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Operate the device within the specified environmental conditions (temperature and humidity).
- Avoid exposing the device to excessive moisture or extreme temperatures.
- Ensure proper ventilation around the unit to prevent overheating.


10. WARRANTY AND SUPPORT






For information regarding product warranty, technical support, and additional resources, please refer to the official Waveshare website:

www.waveshare.net


The website provides comprehensive documentation, software downloads, and contact information for customer assistance.

Related Documents - RS485 TO ETH

	<p>Waveshare RS232/485 to WiFi PoE Ethernet (B) Serial Server User Manual</p> <p>Explore the Waveshare RS232/485 to WiFi PoE Ethernet (B) User Manual, a comprehensive guide for the serial server that converts RS232/485 to TCP/IP network interfaces, enabling bidirectional data transmission via WiFi and Ethernet.</p>
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	<p>Waveshare RS485 to WiFi/ETH MQTT Communication User Manual</p> <p>Comprehensive user manual for the Waveshare RS485 to WiFi/ETH module, guiding users through software and hardware preparation, network configuration, and establishing MQTT communication with platforms like EMQX.</p>
	<p>Waveshare RS232/485 TO WIFI ETH (B) User Manual: Setup, Features, and Applications</p> <p>Comprehensive user manual for the Waveshare RS232/485 TO WIFI ETH (B) serial server. Learn about its features, hardware and network setup, data transmission, various working modes, and application scenarios for industrial and IoT communication.</p>
	<p>RS232/RS485 to Ethernet & PoE Ethernet Gateway Technical Specification</p> <p>This document provides detailed specifications, hardware and software features, and testing procedures for the Waveshare RS232/RS485 to Ethernet and PoE Ethernet gateways. These devices function as serial servers, Modbus gateways, and MQTT gateways for industrial data acquisition and IoT connectivity.</p>
	<p>Waveshare RS232/485 to Ethernet Converter User Manual</p> <p>This is an industrial-grade RS232/485 to Ethernet module from Waveshare, enabling bidirectional transparent data transmission between RS232, RS485, and RJ45 Ethernet ports. It features a 32-bit ARM M4 processor, 10/100M Ethernet, multiple operating modes (TCP Server/Client, UDP, HTTPD), Modbus gateway, and Websocket support, offering high speed, low power consumption, and stability for industrial IoT applications.</p>
	<p>Waveshare USB TO RS232/485/TTL Isolated Converter User Manual</p> <p>User manual for the Waveshare USB TO RS232/485/TTL industrial isolated converter. Covers features, specifications, driver installation, and testing for RS232, RS485, and TTL interfaces. Includes FT232RL chipset, ADI magnetical isolation, and TVS protection.</p>

Documents - Waveshare – RS485 TO ETH



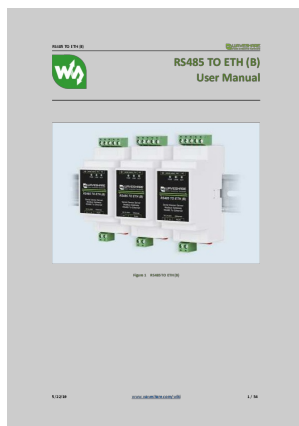
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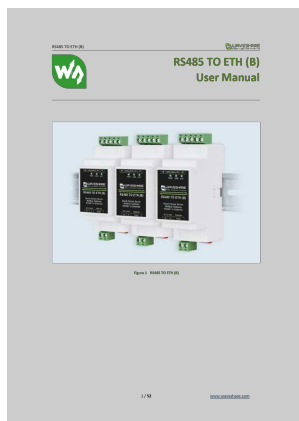
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1 / 54 **RS485 TO ETH B** 1. OVERVIEW This is a RS485 device data collector/IoT gateway specially design
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RS485 / Modbus MQTT RS485 JSON RS485 9-24V RS485 RS232 **RS485 TO ETH B** TCP/UDP **RS485 T**
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RS485 TO ETH B User Manual rhydoLABZThis is a device data collector IoT gateway specially designed for industrial environnr combines multiple functions such as serial server RS485 to eth manualrhydolabz documents 34 manual srsltid AfmBOorhh NeBEirLpeMCCbjfqvXeDWSqjuG722r6OdVndns0q9p tcH rhydoLABZRS485 This manualv1rhydolabz tcHrhydolabz AfmBOoqP3U C30bOauxSsXbkpvZAnzDnyFXMAqWQ6CX4UblKod3 manualv1v1rhydolabz AfmBOoqoBCG1m PeYOw0R MIBJMSL3r7iZjXB1QtBna0DhGHO98X90aQrhydolabz The with and Ethernet interfaces use has guide rail designRS485 manualv1v1RS485 C30bOauxSsXbkpvZAnzDnyFXMAqWQ6CX4UblKod3rhydolabz AfmBOorRueQrrYf92xrlIKvFYFPxBJnPKPz0aawjyjICDUp3ZUPemREWF designThe AfmBOorRueQrrYf92xrlIKvFYFPxBJnPKPz0aawjyjICDUp3ZUPemREWFrhydolabz AfmBOoqc4U ak4vjnc2p dpo0xcLIWsy8mVtUND29WakCMFMI JE5 w manualv1RS485 wrhydolabz AfmBOopFLLaGzvmCEjvzAf3GLbUW1K3soT5j4Y52Q4fNSKAtkvBhTbuf manualRS485 AfmBOopFLLaGzvmCEjvzAf3GLbUW1K3soT5j4Y52Q4fNSKAtkvBhTbufirhydolabz AfmBOooUc G0Cif0Ebreg pEQquwQsgT5jkPLX yxqLy6pGEt4fL yxqLy6pGEt4fLrhydolabz AfmBOorfbdluBcOPYnoOvhmH8FWwALBEx3VXtBPdOt8b4Sk3KBbHpUiG AfmBOorfbdluBcOPYnoOvhmH8FWwALBEx3VXtBPdOt8b4Sk3KBbHpUiGrhydolabz AfmBOooxjV2u95j0Tv5CiJnf6bdAtMEKswAQz6SRHXNZkKITAjEyFzB designWhen used common port connect the network host computer software can TCP UDP transparent RS485 AfmBOopa58BPhokmswj6mpT3GumaylDXSXoi77mxvo76Ch62oUvYUFbjrhydolabz AfmBOooxjV2u95j0Tv5CiJnf6bdAtMEKswAQz6SRHXNZkKITAjEyFzBrhydolabz AfmBOopGlShojHaR58 9fmavblIkS7TsrO10fMtejErXOridhXnQ RI AfmBOopgVU93Wm6Z9qnSTUulcz6VT 5W6fIPR0dqdmsd1zYV4ex XB15jCrhydolabz AfmBOopJV8SH0N92Edx06t ZVYkf8GHd8 jbGDqKlpwQWme4GE8VMQ5Srhydolabz AfmBOorEeQitgPhNo LQT4WBwwwi6AYF4teVoXVSnybJJ5H5ID7LcFFXFrhydolabz Rlrhydolabz AfmBOoqDCDlaPkFNDkdBOYbStEaX07Ewtas4tlwma 4 29plcY 29plcYrhydolabz AfmBOoqfauoLx1nsns5eQzlyhUxL0hrYGBTVN4v3AH MnDZcP4TXLiwR transparent This AfmBOoqrTzPov9zdR8UIAqm7LkSLhaSNZ01vyWTZ6FnhO01ld2gl3rdjrhydolabz AfmBOoqzMuECm 4QyKUnlL5SZvZJsdCOMcFQTqrXngsTCzc2zl8wN blrhydolabz AfmBOorgqd MH6RLCk5eSBd9YcwopbdRWN hxninOyPxuntR8Tsuft40rhydolabz MnDZcP4TXLiwRrhydolabz AfmBOoohrRtNQDTo ROguj8gAA9yox4 qOYqISShOi wvt7sSljQAN module realize two way transparent transmission of from The user does not need to RS485 AfmBOooYTbBGMERcZaLxc7fsZNixiMQzPvRRxv3ed3cT61iouEFzP597rhydolabz need The AfmBOooKX460JudRRUsCEQMg8g2SWgXv75zQ5uplflPvpqTbWSLKY5B0Mrhydolabz to When AfmBOoqfZLk7AoAHB29PEC icalWyR8E OQNnkPdGnmW6HqG6SMlxweCrhydolabz wvt7sSljQAN62rhydolabz AfmBOoo8 l3QuDuwsJLXuXfjopVMmEs7ZH7e R55R bdO yQVw3yO AfmBOoqmeLYtoP9WsaPOlWXmxRRRPhNi9fT5U6e93i YP7iDmh0EWgZQVrhydolabz yQVw3yOrhydolabz AfmBOorhWmJHHlmqAtTj7ZbyWCA8PBYFwS5WneKJVEyQePjOv19I7C AfmBOopeptaV43yWaRHaAYcfAlH7gdTIAhXL8qLoMUWJIGg7iDfy5zarhydolabz AfmBOorhWmJHHlmqAtTj7ZbyWCA8PBYFwS5WneKJVEyQePjOv19I7Crhydolabz AfmBOopdRNS0XrojajuJia X2QijKc8rRhIQM3hiHBStc7NGLrH5WGZW AfmBOoqYIVSsN8HHwOe87NARNX9WDNfzYgd5zZ09UwOqPdSPEcpxjcrhydolabz AfmBOorg4DHccJgrXzbML EJEol1hYyCgK0LIKyVF zjDe9QEaHTcpzOrhydolabz AfmBOorU zlxUMRWzkkQ6atPxPmnggbUNYALi e2Aynn37bdPpHrhydolabz AfmBOor4wlzE4tcr3qnQYsBxn iY cssdKUPpPCZWHA2rhVralRyVw8Lrhydolabz AfmBOor2FN66yDqgg urtkBFXsFTXSLO8oAXnCIkoES wmTixdk7Xprhydolabz AfmBOorDGB8Ea7x5VNFOiEsGO4uRHGfd1 14OWeLgceVNVs6pMaggg8Rrhydolabz AfmBOopJii xhoMDHvx ByXI5Q9Bikocactw7nQbbNd7WlxWiQuBuf67rhydolabz transpar designThis AfmBOoq9yW hCJD tWbm1t6 o7 N k18SxRKCSbshioGBBSKN97IOMwkrhydolabz AfmBOoqaLMTcr64bPSJf2QrMbFiOabbb3 1vaZQ5uIS4fHliNwUfWnXGrhydolabz AfmBOopAagd9t0Ny0FeVeh9RzybBa3BPfK46C Glis2WZAxoLTKXoI06Frhydolabz X2QijKc8rRhIQM3hiHBStc7NGLrH5WGZWrrhydolabz AfmBOoqzLfryAWGcjHcxEpaXf JzbiXqJXSaeZX tq5AAA3P5ykp rR ||| ||| RS485 TO ETH B RS485 TO ETH B User Manual Figure 1 RS485 TO ETH B 1 / 52 www.waveshare.com RS485 TO ETH B 1. OVERVIEW This is a RS485 device data collector/IoT gateway specially designed for industrial environments. It combines multiple fun ||| RS485 TO ETH B RS485 TO ETH B User Manual Figure 1 RS485 TO ETH B 1 www.waveshare.com RS485 TO ETH B 1. OVERVIEW This is a RS485 device data collector/IoT gateway specially designed for industrial environments. It combines multiple fun ||| RS485 TO ETH B RS485 TO ETH B User Manual Figure 1 RS485 TO ETH B 1 www.waveshare.com RS485 TO ETH B 1. OVERVIEW This is a RS485 device data collector/IoT gateway specially designed for industrial environments. It combines multiple fun ||| RS485 TO ETH B RS485 TO ETH B User Manual Figure 1 RS485 TO ETH B 1

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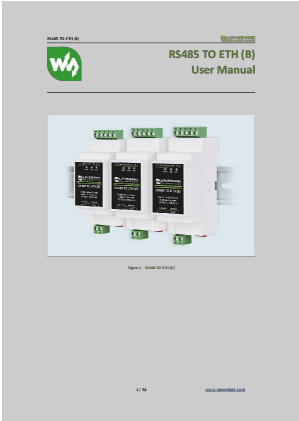
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RS485 TO POE ETH B Overview There are two versions of this product, the two are the same in software
functions, and the differences in hardware are as follows: **RS485 TO ETH B** : Common Ethernet connector
24V wide voltage power supply via terminal block. RS485 TO POE ETH B : Hardware upgrade v...

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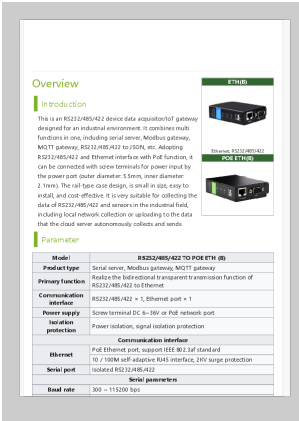
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RS485 TO ETH **RS485 TO ETH** User Manual **RS485 TO ETH** CONTENT Features

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Overview 6 days ago — RS485 TO ETH B Manual 105.jpg MODBUS TCP Test Page 9 By default the data between serial port and network is transparently transmitted If you DOC035207658 static chipdip ru lib 207 |||

Overview ETH B Introduction This is an RS232/485/422 device data acquisitor/IoT gateway designed ... replaced with the user serial device, then COM5 can realize the communication with the user device. **RS4 TO ETH B** Manual 105.jpg MODBUS TCP Test By default, the data between the serial port and n... lang:en score:31 filesize: 1.1 M page_count: 13 document date: 2023-09-28



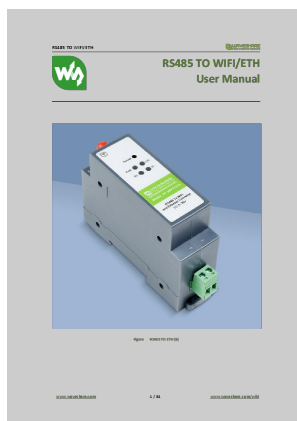
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RS485 TO ETH User Manual Waveshare to Ethernet Converter for EU robu in 2021 04 Konwerter Cortex M0 Sklep Botland use manual en waveshare w upload 6 6d quot DOWNLOAD Buy Online INDIA Robu FEATURES • 10 100Mbps port support Auto MD Support TCP Server Client UDP HTTPD files st can setup software from Wiki When want USB module is required ○ Open Serial Assistant on PC and set it DOC017289146 static chipdip ru lib 289 inRS485 WaveshareUživatelský manuálInstrukcja obsługiBenutzerhandbuchTCP device will connect server realize data transmission between the serial According protocol has User it RS485 ClientPřevodník obchod s robotikouKonwerter BotlandKonverter Robotikageschäft4 CONTACT US Email order shipment sales@waveshare tech ViewRS485 ClientWaveshare To Adapter With Plug Sharvielectronics Best Electronic Products Bangaloref WikiBuy inBuy inKonwerter BotlandRS485 enWaveshare EUWaveshare EURS485 enRS485 EUwaveshare enrobu EUrobu enwav enfiles EUst quotrobu EUfiles enstatic DOC017289146robu |||

RS485 TO ETH RS485 TO ETH User Manual RS485 TO ETH CONTENT Features

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lang:fr score:31 filesize: 2.65 M page_count: 26 document date: 2020-10-10

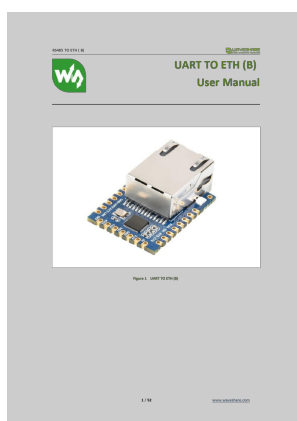


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User Guide Waveshare RS485 to WiFi Ethernet Module Rail Mount Serial Server Modbus MQTT Gateway Electronics B1 xf3vkukl media amazon images l |||

RS485 TO WIFI/ETH RS485 TO WIFI/ETH User Manual Figure **RS485 TO ETH B** www.waveshare.com 1 www.waveshare.com/wiki RS485 TO WIFI/ETH 1. OVERVIEW Support 802.11b/g/n wireless standards. Support WAVESHARE-link. Support route and bridge modes. Support RS485 to Wifi/ Ethernet communica...

lang:en score:30 filesize: 3.73 M page_count: 81 document date: 2022-06-21



[\[pdf\]](#) User Manual

Uart to eth b user manual en v1 waveshare w upload 5 5f |||

RS485 TO ETH B UART TO ETH B User Manual Figure 1 UART TO ETH B 1 / 52 www.waveshare.com **R TO ETH B** 1 . OVERVIEW It is a UART to Ethernet module designed for industrial environments, small in s easy to embed and integrate, with device data collector/IoT gateway, serial serve...

lang:en score:30 filesize: 2.43 M page_count: 51 document date: 2023-04-01



[pdf] User Manual Dimension Guide Diagram

RS485 TO ETH rhydoLABZ FEATURES • 10 100Mbps Ethernet port support Auto MDI MDIX Support TCP Server Client UDP HTTPD user manual rhydolabz documents 30 Usar Manual to Converter INDIA 2 PRODUCT FUNCTIONS This chapter introduces functions of socket UDP RS485 ClientRS485 INDIARS485 ConverterRS485 srsItd
AfmBOopC5gzdmUpXdRaUGR70yFq2lhM2m9FqtpRudGscrn0BvJJ3y8cFRS485 manualRS485 manualv1RS485 manualrhydolab
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in RS485 AfmBOopVQOWPnDqMrTyozde86esoO 3ss1PuaXCXSqKSKTwxUajUW4Narhydolabz
AfmBOopoV8VHFX3rbamDVMnsYvOZiRReBg 3rM6cz cuFnthdChd ngCrhydolabz AfmBOoah1JQfulBGM 1mz vrjf4r p3jRBP1W
l5MTREzvbCj sV7rhydolabz AfmBOooUJzhHoO76GTs34JQm4Flgs53TMMwVmOID4k37UgF IOE3EutQrhydolabz
AfmBOopJcqgonuJwG45oLLm6etiskbJ WjxLHdYcnRPksda3np1XOekFrhydolabz |||

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1/52 www.waveshare.com RS485 DO ETH B UDOSTPNIJ WAWAVE IUdostpnij sprzt cwesoma 1. PRZEC
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Instrukcja obsługi konwertera RS485 TO ETH elty pl 21 mars 2022 — Page 1 2 Spis treści Specyfikacja userdata public assets |||
Instrukcja obsługi konwertera **RS485 TO ETH** Instrukcja obsługi konwertera **RS485 TO ETH** Spis treci
Specyfikacja:.....
1. Potrzebne oprogramowanie.....

lang:de score:28 filesize: 7.36 M page_count: 28 document date: 2021-09-05

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RS485 TO ETH B MQTT and JSON Manual MQTT json user manual rhydolabz documents 34 manual srsltd
AfmBOopz3iGYcyvUcSEzn8RDJmB8W4a85p PGOciWsHgbayUCeIWfTYX Manual rhydolABZIn addition you can also find
WAVESHARE to customize some non standard instruments host computer protocol formats 6 MODBUS RTU Combining v1MQTT
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Manual RS485 TO ETH B MQTT and JSON Manual 1 / 36 www.waveshare.com 485 TO ETH B User Manual CONTENTS 1. Over
2. JSON simple example .3 2.1. Modbus RTU to JSON . 3 2.2. Modbus table 3 2.3. Device configuration 4 2.4 ||| 485 TO ETH B Us
Manual RS485 TO ETH B MQTT and JSON Manual 1 / 36 www.waveshare.com 485 TO ETH B User Manual CONTENTS 1. Over
2. JSON simple example .3 2.1. Modbus RTU to JSON . 3 2.2. Modbus table 3 2.3. Device configuration 4 2.4 ||| 485 TO ETH B Us
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2. JSON simple example .3 2.1. Modbus RTU to JSON . 3 2.2. Modbus table 3 2.3. Device configuration 4 2.4 ||| 485 TO ETH B Us
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example.....	2. JSON simp

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MBPodwójny przemysłowy konwerter do Ethernet CH Waveshare 24962 sklep KamamiEN manual2p1186170 1robu manual2kam
p1186170 1 ||| ||| 485 TO ETH B User Manual RS485 TO ETH B MQTT and JSON Manual 1 / 36 www.waveshare.com 485 TO ETH
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RS485 TO ETH Robot Parts Kits Toys 2 1 RESTORE DEFAULT SETTINGS Hardware User can press Reload over 5 seconds : less than 15 then release to restore set with Heartbeat Packet function by web server as follow 4 3 EDITABLE WEB SERVER support user modify the based on template according needs use related tool upgrade If have this demand contact our salespersons for sou RESET FUNCTION waveshare rs485 ethernet converter datasheet robotshop media files content w wav

RS485 TO ETH RS485 TO ETH User Manual RS485 TO ETH CONTENT Features

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Start.....

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Waveshare Industrial Serial Server RS485 TO POE ETH B To RJ45 Ethernet TCP IP Rail Mount Support Sharvielectronics Bes Online Electronic Products Bangalore to eth b user manual EN v1.3 drive google file d 1igtCE5caZHU0l0CpFeC1psJEz3Du1ACh v usp sharing |||

RS485 TO ETH B **RS485 TO ETH B** User Manual Figure 1 **RS485 TO ETH B** 1 / 52 www.waveshare.com
RS485 TO ETH B 1. OVERVIEW This is a RS485 device data collector/IoT gateway specially designed for industrial environments. It combines multiple functions such as serial server, Modbus gateway,...
 lang:en **score:26** filesize: 3.03 M page_count: 52 document date: 2022-12-15



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Overview RS485 TO ETH B Common Ethernet connector 9~24V wide voltage power supply via terminal block POE Hardware upgi version can support DOC035256098 static chipdip ru lib 256 |||

Overview There are two versions of this product, the two are the same in software functions, and the differences in hardware are as follows: RS485 TO POE ETH B PoE Ethernet port Electrical isolation **RS485 TO ETH B** : Common Ethernet connector, 9-24V wide voltage power supply via terminal block...
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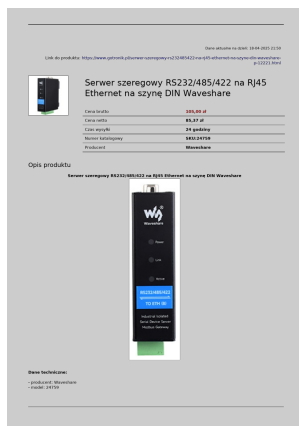
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 485 TO ETH B User Manual **RS485 TO ETH B** MQTT and JSON Manual 1 / 36 www.waveshare.com 485 TO ETH B User Manual CONTENTS 1.
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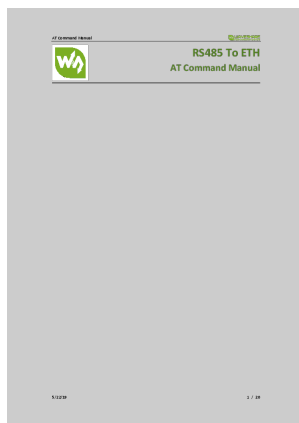
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 lang:fr **score:23** filesize: 1.84 M page_count: 16 document date: 2023-07-13



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Produkt shopGold Serwer szeregowy RS232 485 422 na RJ45 Ethernet 1 день назад — szynę DIN Waveshare Port x RS485 RS-
Zasilanie serwer rs232485422 rj45 ethernet szynę din waveshare gotronik pl karta 12221 html |||

Dane aktualne na dzie: 18-04-2025 21:50 Link do produktu: <https://www.gotronik.pl/serwer-szeregowy-rs232485422-na-rj45-ethernet-na-szyne-din-wavesharep-12221.html> Serwer szeregowy RS232/485/422 n
RJ45 Ethernet na szyn DIN Waveshare Cena brutto Cena netto Czas wysyłki Numer katalogowy Producer
lang:pl score:23 filesize: 1.71 M page_count: 11 document date: 2025-04-18



[pdf] User Manual Guide

User Guide Waveshare RS485 to Ethernet Converter with High Speed Low Power Stability Up gradable Easy Communicate Betwe
RJ45 Port Electronics 81KbYx2FTL m media amazon images I |||

AT Command Manual RS485 To ETH AT Command Manual 5/22/19 1 / 20 AT Command Manual Content
What is the AT command4 2. How to
the AT command.....

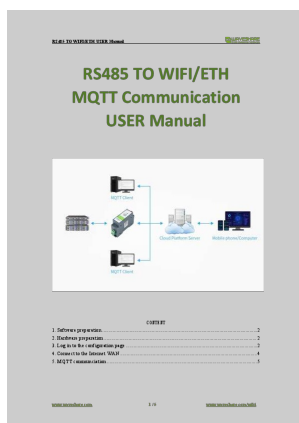
lang:nl score:23 filesize: 288.64 K page_count: 20 document date: 2022-06-21



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Produkt shopGold 4 kanałowy serwer szeregowy RS485 do PoE RJ45 Ethernet naproducent Waveshare model 26361 każdy kana
działa niezależnie umożliwiając jednoczesną efektywną transmisję 4 kanałowy rs485 poe rj45 ethernet na szynę din wavesharegot
pl waveshare karta 12223 html |||

Dane aktualne na dzie : 28-11-2025 23:50 Link do produktu: <https://www.gotronik.pl/4-kanalowy-serwer-szeregowy-rs485-do-poe-rj45-ethernet-na-szyne-din-wavesharep-12223.html> 4 kana owy serwer szeregow
RS485 do PoE RJ45 Ethernet na szyn DIN Waveshare Cena brutto Cena netto Czas wysyłki Numer k...
lang:pl score:22 filesize: 1.88 M page_count: 9 document date: 2025-11-28



[Waveshare RS485 to WiFi/ETH MQTT Communication User Manual](#)

Comprehensive user manual for the Waveshare RS485 to WiFi/ETH module, guiding users through softwa
and hardware preparation, network configuration, and establishing MQTT communication with platforms lik
EMQX.

lang:en score:22 filesize: 1022.02 K page_count: 5 document date: 2022-09-11

RS232/485/422 TO POE ETH (B)

From Waveshare Wiki
Jump to: navigation, search

Overview

Introduction

This is an RS232/485/422 device data acquirer/IoT gateway designed for an industrial environment. It combines multi functions in one, including serial server, Modbus gateway, MQTT gateway, RS232/485/422 to JSON, etc. Adopting RS232/485/422 and Ethernet interface with PoE function, it can be connected with screw terminals for power input by the power port (outer diameter: 5.5mm, inner diameter: 2.7mm). The rail type case design is small in size, easy to install, and cost-effective. It is very suitable for collecting the data of RS232/485/422 devices and sensors in the industrial field.




From Waveshare Wiki. Open-source documentation for hundreds of products. For the latest version of this manual or other support, please contact customer service.

[pdf] User Manual Documentation

RS232 485 422 TO POE ETH B Waveshare Wiki BThis is an device data acquirer IoT gateway designed for industrial environme combines multi functions in one including serial A1FvW 3lsLm media amazon images I A1FvW 3lsL ref dp product quick view BWaveshare serial This serial See morem viewm ||| ||| RS232/485/422 TO POE ETH B From Waveshare Wiki Jump to: navigation, search Overview Introduction This is an RS232/485/422 device data acquirer/IoT gateway designed for an industrial environment combines multi functions in one, includi RS232/485/422 TO POE ETH B From Waveshare Wiki Jump to: navigation, search Overview Introduction Slave https://files.waveshare.com/upload/e/e7/Modbus_Slave_7.3.0.1402_x64.zip Related Application RS TO ETH B Connect Alibaba Cloud And EMQX FAQ Question:What should I do if the RS232/485/42... lang:en score:22 filesize: 1.87 M page_count: 18 document date: 2025-08-07

RS485 TO WIFI/ETH

RS485 TO WIFI/ETH User Manual




Waveshare Wiki

[pdf] User Manual

RS485 TO WIFI ETH User Manual p1180722 EN kamami pl ||| RS485 TO WIFI/ETH RS485 TO WIFI/ETH User Manual Figure RS485 TO ETH B www.waveshare.com 1 www.waveshare.com/wiki RS485 TO WIFI/ETH 1. OVERVIEW Support 802.11b/g/n wireless standards. Support WAVESHARE-link. Support route and bridge modes. Support RS485 to Wifi/ Ethernet communica ... lang:en score:22 filesize: 3.73 M page_count: 81 document date: 2022-06-15

AT Command Manual

RS485 To ETH AT Command Manual



Waveshare Wiki

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RS485 To ETH AT Command Manual waveshare w upload 8 8b příkazy Převodník Ethernet Cortex M0 Botland obchod s roboti Komendy to Converter rhydoLABZ INDIA Konwerter Sklep rhydolabz documents 30 quot files Click Here Industrial RS232 For EU Waveshare Sharvielectronics Best Online Electronic Products Bangalore manual Adapter With US Plug TO Wiki manualAT příkazyKomendy ATAT BefehleRS485 INDIARS485 ConverterWaveshare BangaloreRS485 WikiPřevodník robotikouKonwerter BotlandIndustrial BangaloreKonwerter RobotikageschäftKonwerter Botlandrhydolabz Manualrhydolabz Manualwaveshare Manualfile quotwaveshare WikiRS232 485 srsItid AfrmBOoqxlrQK5Ue oFa xasuK FgKP6CMecnhKn7ZPaLar 6ffI9sJiwaveshare ||| AT Command Manual RS485 To ETH AT Command Manual 5/22/19 1 / 20 AT Command Manual Content What is the AT command4 2. How to the AT command..... lang:nl score:22 filesize: 575.62 K page_count: 20 document date: 2019-05-22

RS232 TO ETH (B)


From Waveshare Wiki
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Overview

Introduction

There are two versions of this product, they are the same in terms of the software, and the differences in hardware functions are as follows:

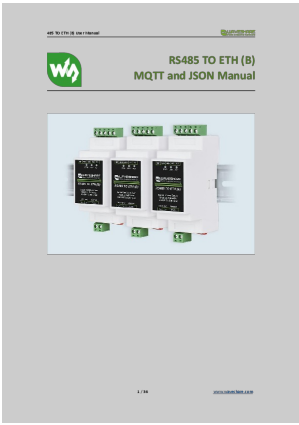
- RS232 TO ETH (B): Common Ethernet port
- RS232 TO POE ETH (B): PoE Ethernet port



Waveshare Wiki

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Sparwan Distributor of IoT IT equipment RS232 TO ETH B Waveshare Wiki v 1718975625 cdn shopify s files 1 0747 1438 2601 ||| RS232 TO ETH B From Waveshare Wiki Jump to: navigation, search Overview RS232 TO ETH B There .. debug tool https://files.waveshare.com/upload/7/75/TCP_26UDPDebug.zip Related Application Example R TO ETH B Connect Alibaba Cloud And EMQX https://www.waveshare.com/wiki/R S485_TO_ETH_B _Co. lang:en score:21 filesize: 1.67 M page_count: 19 document date: 2023-10-13



[pdf] User Manual

RS485TOETH B MQTTandJSONManual 485TOETH UserManual 3 36 waveshare 1 OVERVIEW
MQTTandJSONcanbeusedaloneortogether Amongthem JSONsupportsModbus convertRTUformattoJSONformat MQTT and json u
manual rhydolabz documents 34 |||

485 TO ETH B User Manual **RS485 TO ETH B** MQTT and JSON Manual 1 / 36 www.waveshare.com 485
ETH B User Manual CONTENTS 1.

Overview.....3 2. JSON simp
example.....

lang:en score:21 filesize: 3.57 M page_count: 36 document date: 2022-04-07



[Waveshare RS232/485 to Ethernet Converter User Manual](#)

This is an industrial-grade RS232/485 to Ethernet module from Waveshare, enabling bidirectional transpar
data transmission between RS232, RS485, and RJ45 Ethernet ports. It features a 32-bit ARM M4 process
10/100M Ethernet, multiple operating modes (TCP Server/Client, UDP, HTTPD), Modbus gateway, and
Websocket support, offering high speed, low power consumption, and stability for industrial IoT application
lang:i-klingon score:21 filesize: 4.93 M page_count: 44 document date: 2020-10-12

RS485 TO LTE CAT4 (EU)

From Waveshare Wiki
Jump to: navigation, search

Introduction

Industrial 4G DTU RS485 TO LTE CAT4 DIN Rail Mount, for EMEA, Korea, Thailand, India, Southeast Asia

More ()

Resource

Documentation

- User Manual (https://files.waveshare.com/upload/b/b8/RS485_TO_LTE_CAT4_%28EU%29_User_Manual.pdf)

Software

- SSCOM (<https://files.waveshare.com/upload/5/53/SSCOM%201.1.1.zip>)
- DTU-Config (https://files.waveshare.com/upload/7/70/RS485_TO_LTE_%28EU%29_Config_EN.zip)

FAQ

Question:How do I enter serial command mode?

Answer:

1. You can click to enter the configuration mode to enable AT command control.
2. Or use the following method to enter the AT command mode:
3. The serial port device continuously sends "+++>" to the device, after the device sends "+++>", it will send an "OK" to the device, no data can be sent within 20ms before sending "+++>".
4. After the device receives "+++>", it must send an "OK" to the device within 3 seconds.
5. After receiving "OK", the device sends "+++>" to the device and enters "temporary command mode".
6. After the device receives "+++>", it knows that the device has entered the "temporary command mode" and can send AT commands to it. Switch from temporary command mode to GPS transparent transmission, network transparent transmission.

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[pdf] User Manual Frequently Asked Questions Documentation

RS485 TO LTE CAT4 EU Waveshare Wiki 1 You can click to enter the configuration mode enable AT command control 2 Or use
following method mode 611SuCeJE6Lm media amazon images I 611SuCeJE6L ref dp product quick view |||

RS485 TO LTE CAT4 EU From Waveshare Wiki Jump to: navigation, search Introduction RS485 TO LTE
st Asia More Resource Documentation User Manual https://files.waveshare.com/upload/b/b8/RS485_RS485_TO_ETH_B_ernet_Converter_TO_LTE_CAT4_28EU_29_User_Manual.pdf Software SSCOM <https://files...>

lang:en score:21 filesize: 103.36 K page_count: 2 document date: 2025-08-20

[\[pdf\]](#) Dimension Guide

RS232 TO ETH B In the serial debugging assistant SSCOM2 set as TCPClient enter Waveshare Test and click send then data will transferred to RS232 A1PTyPQl1AL m media amazon images I |||

RS232 TO ETH B Overview RS232 TO ETH B There are two versions of this product, they are the s ...
Software Vircom Virtual serial port control SSCOM TCP/IP/UDP debug tool Related Application Example **R**
TO ETH B Connect Alibaba Cloud And EMQX FAQ Question:RS232 TO ETH B LINK is yellow, what sh...
lang:en **score:21** filesize: 1.69 M page_count: 1 document date: 2023-03-30

RS232 RS485 TO POE ETH (B)

From Waveshare Wiki

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Overview

Introduction

This is a dual serial port device data acquirer / IoT gateway designed for the industrial environment, 1-ch RS232 and 1-ch RS485 can work simultaneously without interfering with each other using one Ethernet cable. It combines multiple functions in one, including serial server, Modbus gateway, MQTT gateway, RS232, and RS485 to 350Ω, etc. The other one Ethernet port can be used as a network switch or for connecting with the host. Function is optional for dual Ethernet ports. Provides two power supply methods: DC port (outer diameter: 5.5mm, inner diameter: 2.5mm) and screw terminal. The case with cable port.

RS232 RS485 TO ETH (B)



<https://www.waveshare.com/rs232-rs485-to-eth-b.html> (2016)

<https://www.waveshare.com/rs232-rs485-to-eth-b.html> (2016)

[\[pdf\]](#) Specifications

Sparwan Distributor of IoT IT equipment RS232 RS485 TO POE ETH B Waveshare Wiki 1 v 1718975927 cdn shopify s files 0747 2601 |||

RS232 RS485 TO POE ETH B From Waveshare Wiki Jump to: navigation, search Overview RS232 **RS485** **ETH** B Introduction This is a dual serial port device data acquirer / IoT gateway designed for the industria environment, 1-ch RS232 and 1-ch RS485 can work simultaneously without interfering...

lang:en score:20 filesize: 1.83 M page_count: 17 document date: 2023-09-06



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RS485 TO ETH User Manual Waveshare TCP Client device will connect to server realize data transmission between the serial port
According protocol has user manual en waveshare w upload 6 6d 4 CONTACT US Email order shipment sales@waveshare tech s
View Uživatelský manuál Převodník Ethernet Cortex M0 Botland obchod s robotikou Instrukcja obsługi Konwerter Sklep |||
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lang:en score:20 filesize: 1 M page_count: 0 document date: 0000-00-00



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RS485 To eth b Because there is only interface the RS232 that not commonly used on valid for serial port When destination IP
described by a domain View Rs232 485 to user manual en v1 0 waveshare w upload 07
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lang:en score:18 filesize: 4.43 M page_count: 54 document date: 2021-11-17



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lang:en score:17 filesize: 63.3 K page_count: 1 document date: 2022-04-08



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json user manual2 kamami pl |||
485 TO ETH B User Manual **RS485 TO ETH B** MQTT and JSON Manual 1 / 36 www.waveshare.com 485
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example.....
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RS232/485/422 TO POE ETH B Overview ETH B Introduction This is an RS232/485/422 device data ac ...

Vircom virtual serial port control SSCOM TCP/IP/UDP debug tool Modbus Slave Related Application **RS485**

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lang:en **score:16** filesize: 1.34 M page_count: 1 document date: 2023-10-18

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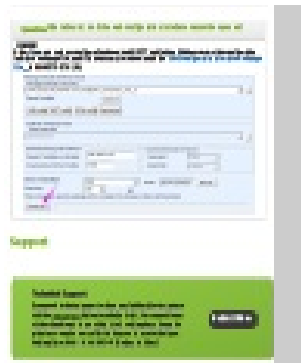
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Overview

There are two versions of this product, they are the same in terms of the software, and the differences in hardware functions are as follows:

- RS232 TO ETH (B): Common Ethernet port
- RS232 TO POE ETH (B): PoE Ethernet port

Introduction

This is an RS232 device data acquisition / IoT gateway designed for an industrial environment. It combines multi-functions in one, including serial server, Modbus gateway, MQTT gateway, RS232 to RS485, etc. The module features RS232 and an Ethernet port and uses core terminals for power input. The rail-mount case design is small in size and easy to install. It is very suitable for collecting all kinds of RS232 instruments and sensors in the industrial field, including the collection of local networks or the autonomous collection and delivery of uploaded cloud servers.

Parameters

Model	RS232 TO ETH (B)	RS232 TO POE ETH (B)
Type	Serial server, Modbus gateway, MQTT gateway	Serial server, Modbus gateway, MQTT gateway
Main Function	Bi-directional transparent data transmission between RS232 and Ethernet	Bi-directional transparent data transmission between RS232 and Ethernet
Communication Interface	RS232 port x 1, Ethernet port x 1	RS232 port x 1, Ethernet port x 1
Power Supply	Scope terminal DC 6-36V	Scope terminal DC 6-36V or PoE Ethernet port
Isolation Protection	Power isolation, signal isolation protection	Power isolation, signal isolation protection
Communication Interface	Common Ethernet	PoE Ethernet port, support IEEE 802.3af

[pdf]

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Overview RS232 TO ETH B There are two versions of this product, they are the same in terms of th ... Sof

Vircom Virtual serial port control SSCOM TCP/IP/UDP debug tool Related Application Example **RS485 TO**

B Connect Alibaba Cloud And EMQX FAQ Question:RS232 TO ETH B LINK is yellow, what sh...

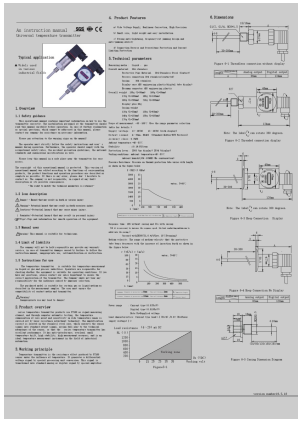
lang:en **score:16** filesize: 945.64 K page_count: 15 document date: 2023-09-28

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UART TO ETH B 12 uur geleden — Can be used as Serial server Modbus gateway MQTT suitable for applications like data acquis
IoT safety security and B155vy2GvpL m media amazon images I |||

UART TO ETH B Overview It is a UART to Ethernet module designed for industrial environments, smal ...
UART to JSON, and many other functions in one. It has a UART interface and an Ethernet interface. **RS485**
ETH B TTL TO ETH,PCBA Parameters RS485 to Ethernet serial server Model UART TO ETH B...

lang:en **score:16** filesize: 2.85 M page_count: 1 document date: 2023-04-07



[\[pdf\]](#) User Manual Specifications Dimension Guide

CWDZ11 RS485 TO ETH B Waveshare WikiWSTP12A Specificationfiles waveshare upload 5 57 WSTP12A Specification |||

An instruction manual Universal temperature transmitter 4. Product Features a Wide Voltage Supply, Nonlinear Correction, High Precision b Small size, light weight and easy installation c Strong anti-lightning, frequency jamming design and anti-jamming ability 6.Dimensions 15/18mm G1/2G1/4...

lang:en score:15 filesize: 3.82 M page_count: 3 document date: 2020-11-30

RS485 TO ETH (B)

Introduction

Industrial Serial Server, RS485 To RJ45 Ethernet, TCP/IP To Serial, Rail-Mount Support

Documentation

- User Manual#
- MQTT and JSON Manual#

Software

- Vircom
- virtual serial port control
- sscom
- TCP/IP/UDP debug tool

Certificate

CE EMC#

FAQ

Question:What is the power of RS485 TO ETH (B)?

Answer:

The detailed data is as follows:

	Input Voltage (V)	Input Current (A)	Power
Specifications	9V	0.020	0.18W
	12V	0.015	0.18W
	24V	0.008	0.19W

Question:What should I do if the web configuration interface cannot be opened?

Answer:

Configuration and download other firmware such as MQTT and json Modbus cover the configuration interface web page file, you need to re-download configuration interface

web file to RS485 TO ETH (B):

Message about the interface cover

Message about the interface cover

Special config

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[\[pdf\]](#) User Manual Frequently Asked Questions Documentation

Bedienungsanleitung Waveshare Industrial Serial Server RS485 to RJ45 Ethernet TCP IP Module Support Rail Mount Modbus Gat Common Port Without PoE Amazon de Computer Zubehör 71jqyxPXcLL m media amazon images I |||

RS485 TO ETH B Introduction Industrial Serial Server, RS485 To RJ45 Ethernet, TCP/IP To Serial, Rail-M Support Documentation User Manual MQTT and JSON Manual Software Vircom virtual serial port control sscom TCP/IP/UDP debug tool Certificate CE EMC FAQ Question:What is the power of RS485 TO ET... lang:en score:14 filesize: 249.32 K page_count: 1 document date: 2022-06-20