



Industrial RS232/RS485 to Ethernet Converter



Description:

The RS232/485 TO ETH is an industrial RS232/RS485 to Ethernet converter, which allows bi-directional transparent data transmission between RS232/RS485 and RJ45 port Ethernet, even at the same time, it can be configured via webpage.

Specifications:

1. Ethernet:

- Connector: 4-pin RJ45
- Communication rate: 10/100Mbps
- Interface protection: 2KV electromagnetic isolation
- Protocols: IP, TCP, UDP, ARP, ICMP, DHCP, DNS, HTTPD Client, WebSocket
- TX cache: 16Kbyte
- RX cache: 16Kbyte

2. RS485/RS232:

- Connector:
 - RS485: screw terminal (A+, B-, GND)
 - RS232: DB9 male
- Data bit: 5bit, 6bit, 7bit, 8bit
- Stop bit: 1, 2.
- Parity bit: None, Odd, Even, Mark, Space
- Baud rate: 600bps~230.4Kbps
- TX cache: 2Kbyte
- RX cache: 2Kbyte
- Hardware flow control: RTS/CTS
- Interface protection:
 - RS485: 2KV ESD protection, lightning proof, anti-surge, over-current protection
 - RS485 pull up/down registers: 2.2K Ω

3. Power:

- Power supply: 5.0~36.0V (5V recommended)
- Operating current: 86.5mA (@5V)
- Power consumption: <1W
- Interface protection: reverse-proof, ESD protection, anti-surge

4. Environment:

- Operating temperature: -40~85°C
- Storage temperature: -40~105°

Features:

1. M4 series 32-bit ARM processor with up to 120MHz frequency, fast speed, stable and reliable
2. 10/100M Auto-MDI/MDIX ethernet interface, regardless of cross-over or straight-through cable
3. Both RS232 and RS485 interface, allows us to work independently at the same time, without interfering with each other.



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4. Configurable baud rate (600bps~230.4Kbps), supports five parity check options: None, Odd, Even, Mark, Space
5. Multi indicators, for monitoring communication and working status.
6. Available working modes: TCP Server, TCP Client, UDP Server, UDP Client, HTTPD Client (supports GET and POST)
7. Supports Modbus, suited for industrial application.
8. Supports Websocket, allows bi-directional transparent data transmission with RS232/RS485 port via webpage directly.
9. Configurable via webpage, AT commands, serial protocol, and network protocol, provides configuration protocol which can be integrated to your own software.
10. Supports customized heartbeat packets, make sure the connection is truthful, as well as for actively retrieving sensor data.
11. Supports customized registration packets, auto passing the registered packet as identifier after the connection is established, so that different devices can be distinguished.
12. Supports customized webpage, allows user to customize the module configuration page.
13. Supports RFC2217-like protocol, be able to communicate with devices whose serial setting (baud rate, data bit, etc.) may change.
14. KeepAlive mechanism, detects broken connection, auto re-connecting.
15. Supports time-out reboot (no-data reboot), ensures a long-term stable connection, configurable reboot time.
16. Supports DNS domain name resolution, configurable DNS server.
17. Supports DHCP, auto-obtained IP or static IP.
18. Firmware is upgradable via the network.
19. Restore to factory settings via software and/or hardware.
20. Comes with a default MAC address, which is customizable.
21. Provided software: module configuration software, TCP/UDP testing tool, VCOM virtual serial port software.
22. Example code: host computer (socket), VB, C++, Delphi, Android, iOS, etc.

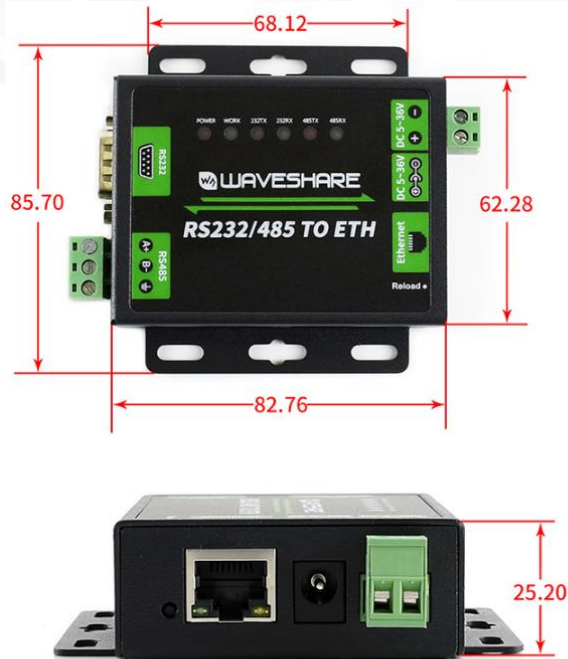
Selection Guide:

	RS485 TO ETH (B)	RS485 TO POE ETH (B)	RS232/485/422 TO ETH (B)	RS232/485/422 TO POE ETH (B)	2-CH RS485 TO ETH (B)	2-CH RS485 TO POE ETH (B)	RS232 RS485 TO ETH (B)	RS232 RS485 TO POE ETH (B)
Description	Common network port	PoE network port + Electrical isolation	Multi interfaces + common network port + Electrical isolation	Multi interfaces + PoE network port + Electrical isolation	2-Ch RS485 + Common network port + Electrical isolation	2-Ch RS485 + PoE network port + Electrical isolation	RS232 + RS485 + Common network port + Electrical isolation	RS232 + RS485 + PoE network port + Electrical isolation
Product Type	Serial server, Modbus Gateway, MQTT Gateway							
Serial Port Type	Single serial port server		RS232/485/422 choose one, single serial port server		Dual serial ports server			
Power Supply methods	Screw terminal							
	-	PoE port	-	PoE port	-	PoE port	-	PoE port
	DC 5.5 power port							
Voltage Range	DC 9~24V		DC 6~36V		DC 6~45V			
Isolation Protection	Without isolation		Power isolation, Signal isolation					

COMMUNICATION								
Ethernet	RJ45 network port	RJ45 with PoE support, IEEE 802.3af compliant	RJ45 network port	RJ45 with PoE support, IEEE 802.3af compliant	2-ch RJ45 network port	2-ch RJ45 with PoE support, IEEE 802.3af compliant	2-ch RJ45 network port	2-ch RJ45 with PoE support, IEEE 802.3af compliant
		10 / 100M auto-negotiation RJ45 connector, 2 KV surge protection						
Serial port	RS485	Isolated RS485	Isolated RS232/485/422 (choose one, only one interface can be used for communication at the same time)		2-ch Isolated RS485 (the 2 channels can receive and transmit independently at the same time)		Isolated RS232 + Isolated RS485 (the 2 channels can receive and transmit independently at the same time)	

SERIAL SPECIFICATION		
Baudrate	300 ~ 115200 bps	
Parity bit	none, odd, even, mark, space	
Data bit	5 ~ 9 bits	
Flow control	N/A	
SOFTWARE		
Protocol	ETHERNET, IP, TCP, UDP, HTTP, ARP, ICMP, DHCP, DNS	
Configuration	host, web browser, device management functions library	
Communication method	TCP/IP direct communication, VCOM	
Operating mode	TCP server, TCP client (coexisting with TCP server), UDP, UDP multicast	
ENVIRONMENT REQUIREMENT		
Operating temperature	-40°C ~ 85°C	
Humidity range	5% ~ 95% relative humidity	
Dimensions (L × W × H)	87.0×36.0×59.0mm	88.7×72.5×24.2mm
		78.0×72.5×24.2mm

Outline dimensions:



Unit:mm