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Communication Expert
of Industrial IOT

Serial Device Server Specification

USR-TCP232-302/304/306

Introduction

USR-TCP232-302, USR-TCP232-304 and USR-TCP232-306 are cost-effective serial to Ethernet converter. They adopt Cortex-M0 solution, which has a main frequency up to 48MHz, providing fast transmission speed. Equipped with RS232/RS485/RS422 serial port and 10/100M Ethernet port, those products can connect to variety of serial devices to achieve transparent transmission via simple configuration to save manpower and shorten the development cycle. These products are widely used in smart traffic, unattended Weighing, manufacturing industry etc.

USR-TCP232-302, 304 and 306 are identical in software features, they both support transparent data transmission, Modbus gateway, user-defined webpage, heartbeat packet, registration packet, index function etc.

In hardware, TCP232-302 is RS232 to Ethernet converter, TCP232-304 is RS485 to Ethernet, TCP232-306 supports RS485/RS232/RS422, but RS485/RS232/RS422 can't work at the same time.

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Product Features

- ARM core, Cortex-M0 solution, equipped with deeply optimized TCP/IP protocol stack. It has low latency and strong scalability, stable and reliable.
- Supports custom webpage function to help users improve brand influence.
- 1.5KV built-in network Magnetic Isolation.
- Wide baud rate: 600~460.8 Kbps, multiple parity bit: NONE, Odd, Even, Space, Mark
- Supports Modbus RTU to Modbus TCP protocol conversion and multi-host polling.
- Supports keepalive mechanism to quickly detect the dead connections and reconnect.
- Supports hardware and software watchdog, automatically restarts when the device goes down.
- 10/100Mbps Ethernet port and support Auto MDI/MDIX.
- Supports a wide industrial operating temperature, -40℃~85℃.
- Versatile operation modes: TCP Server, TCP Client, UDP, HTTP client.
- Support virtual COM, COM Port Redirector USR-VCOM (windows).
- Easy to config: built-in webpage and AT command to set parameters.

Dimensions

Unit: mm

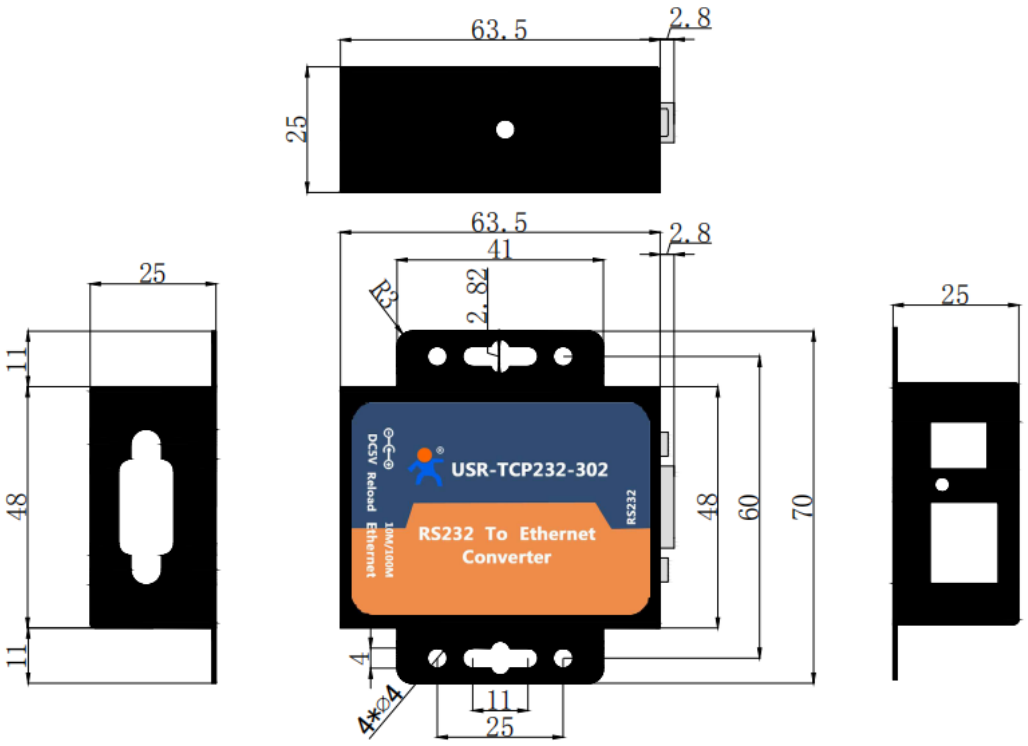


Fig.1 Dimension of TCP232-302

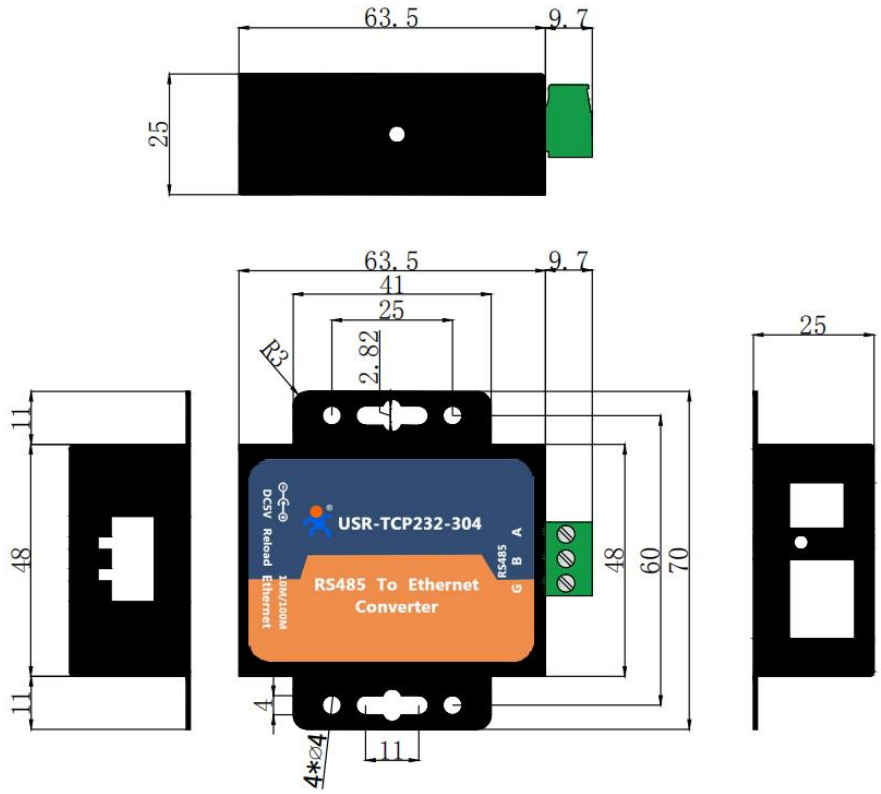


Fig.2 Dimension of TCP232-304

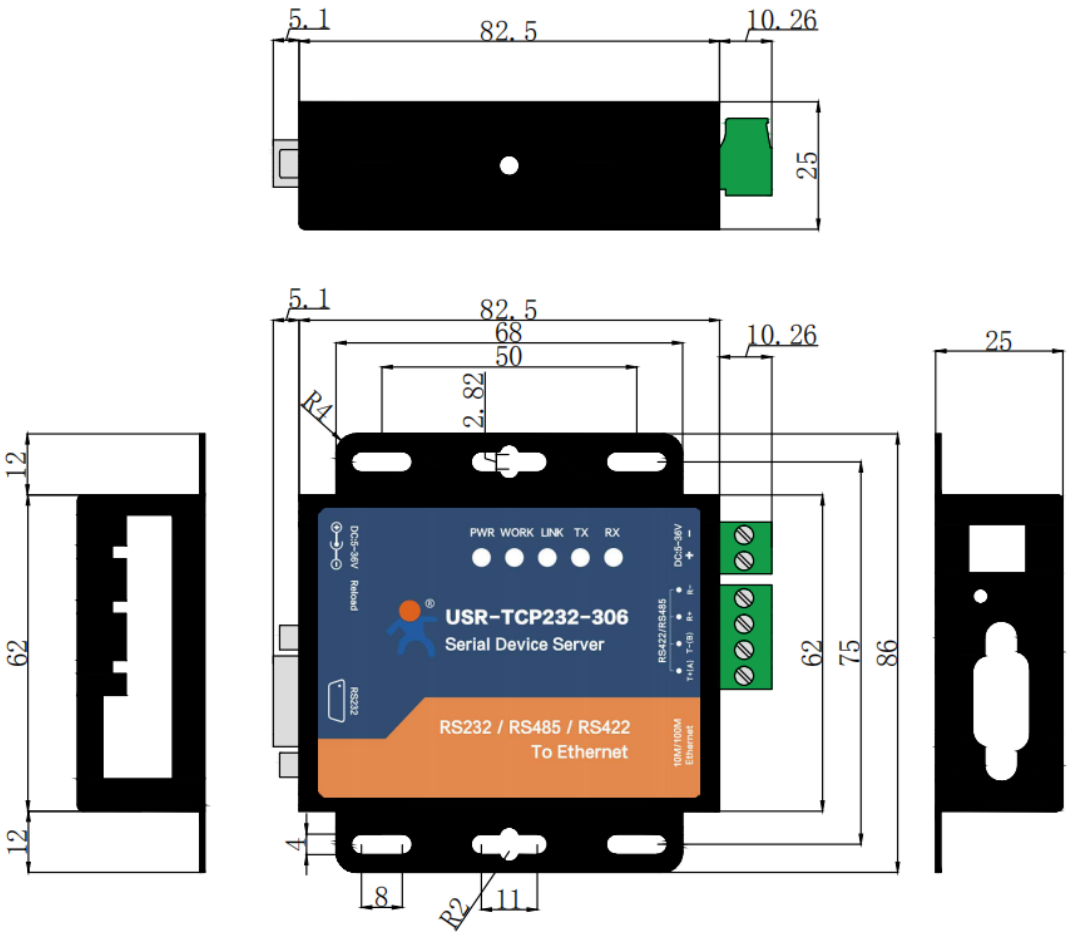


Fig.3 Dimension of TCP232-306

Specifications

Model	USR-TCP232-302	USR-TCP232-304	USR-TCP232-306
Processor	ARM Cortex-M0, 48MHz		
Power Supply			
Power Input	DC: 5.0～7.0 V， Connector: DC 5.5*2.1 mm	DC: 5.0～7.0 V， Connector: DC 5.5*2.1 mm	DC: 5.0～36.0 V， Connector: 5.5*2.1 mm & 2 pin terminal block
Consumption	150mA@5V	150mA@5V	116mA@5V, 53mA@12V
Ethernet Port			
Ethernet Port	1 x RJ45, 10/100Mbps, auto MDI/MDIX		
Serial Port			
Serial Port	RS232	RS485	RS232/485/422(Not work at the same time)
Baud Rate	600~230.4 Kbps		
Data Bits	5,6,7,8		
Stop Bit	1,2		
Parity Bit	None, Odd, Even, Mark, Space		
Serial Packeting	Packeting Time: Four-byte sending time Packeting Length: 400 Bytes		
Serial Packet Cache	Receive:2KBytes		
Reload Button	√		
Physical Parameters			
Dimension(L*W*H)	66.3*70.0*25.0 mm	73.2*70.0*25.0 mm	98.0×86.0×25.0 mm
Installation	Wall Mounting		
Operating Temp	-25~75℃		
Storage Temp	-40~105℃		
Operating Humility	5%~95% RH(non-condensing)		
Storage Humility	5%~95% RH(non-condensing)		
Indicators	None	None	PWR, WORK,LINK,TX,RX
Software			
Network Protocol	IP, TCP/UDP, DHCP, RCMP, HTTP, IPv4, DNS		
IP Mode	DHCP, STATIC IP		
DNS Service	√		
Config Method	AT Command, Built-in webpage, Config Software, Config Protocol		
Work Mode	TCP Server/TCP Client/UDP Server /UDP Client/Httpd Client		
Modbus Gateway	Modbus RTU to Modbus TCP, Multi-host Modbus Polling		
User-Defined Webpage	√		
TCP Server	16 clients		
Network Packet Cache	Send: 6K Bytes Receive: 4K Bytes		
Additional Features	RFC2217 Similar, Heartbeat Packet, Registration Packet, Index, No Data Restart		
Others			
EMC Level	IEC61000, Level 3(Surge, ESD, EFT)		
Certificate	CE		

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