

SERIAL DEVICE SERVER MODBUS GATEWAY



Highlight

- Support Modbus gateway function, support Modbus RTU to Modbus TCP.
- Supports for multiple hosts
- Supports for custom heartbeat and registration package features
- Supports "Transcoding" Function
- RS485 can drive 32 Loads
- Supports data submission and sending function in HTTP mode.

X-CORN 3415 can realize the data transparent transmit between RS232/485/422 and TCP/IP, easily make serial devices connected to Ethernet and Internet, achieving the network upgrading for serial devices. Support full duplex and uninterrupted communication of RS232/485/422 port; RS485/422 are embedded with lightning protection; RS485/422 and RS232 can be used at the same time without switch. Support DHCP, DNS. Support virtual serial port, the original serial PC software no need any modifying.

X-CORN 3415 has the function of Modbus TCP converting to Modbus RTU, and the detailed usage please refer to <Modbus Gateway User Manual>.

Application



- Building
- E-guard System
- Security System



- Power
- Electronic
- Intelligent Instrument



- Bank
- Medical Automation System



- Point of Sells (POS) System



- Stock Trading System



- Industrial Automation System



- Information Appliances

Figure	
Interface	485 / 232 : Terminal; 232 : DB9
Power Supply	5.5 m, Inside positive ; Outside Negative , Standard Outlet
Size	(L) 9.4 cm x (W) 6.5 cm x (H) 2.5cm
Communication Interface	
Ethernet	10M/100M, 2KV electrical plus protection
Serial	RS 232/ 485/ 422×1 : RXD , TXD , GND , CTS , RTS
Serial Parameters	
Baud Rate	1200 ~ 115200 bps
Data size	5 ~ 9
Software	
Protocol	ETHERNET, IP , TCP, UDP, HTTP, ARP, ICMP, DHCP, DNS
Setting Method	ZLVirCom, WEB browser, device management library
Net Communication Method	Socket, Virtual serial , device management library
Work Mode	
TCP server, TCP client, UDP, Real Com Driver	
Power Requirement	
Power Supply	9 ~ 24 VDC
Environment	
Running Temperature	- 40 ~ 85°C
Storage Temperature	- 45 ~ 165°C
Humidity	5 ~ 95% Rh

Hardware Features

- Industrial power supply: it has two kinds of power supply connection modes: terminal and power plug.
- Can be 9~48V wide voltage power supply.
- It has three serial port interfaces of RS232/485/422.
- RS485/422 has capacity of 256 loads.
- Abundant panel indicator lights are convenient for debugging.

Software Features

- Support TCP server, TCP client, UDP mode, UDP multicast. Support TCP server side function as TCP client. Support 30 TCP connections as a TCP server and 7 destination IP as a TCP client.
- The baud rate supports 1200~115200bps, data bits support 5~9 bits, and parity can be None, Odd, Even, Mark, Space. CTS/RTS hardware flow control and XON/XOFF soft flow control.
- Support the function of sending MAC address when device connecting to facilitate cloud management of devices.
- Provide search, configure the device secondary development package DLL on PC.
- Support Web browser configuration, support DHCP dynamic access IP, DNS protocol connect domain name server address.
- Support remote search device, configure device parameter, device program upgrade on cloud.
- Support remote viewing of TCP connection status, serial port data sending and receiving status of devices through software. Virtual serial port supports data monitoring.

Advanced software features

- Support Modbus gateway function, support Modbus RTU to Modbus TCP. The storage Modbus can be supported, and the equipment data can be collected automatically and stored. Modbus gateway for non-storage mode is also supported.
- Support for multiple hosts: support Ethernet port allows multiple computers to access the same serial port device at the same time in a question-answer query mode.
- Support for custom heartbeat and registration package features: easy to communicate with the cloud and identify device.
- Support the function of TCP needs password authentication to establish connection to ensure connection security.
- Support "transcoding" function, which can realize the translation of protocols for specific devices and allow different devices to connect to the unified software platform.
- Support data submission and sending function in HTTP mode, and the cloud can directly use HTTP GET instructions to interact with the serial port data of the device.