

# XCORN X-5143 D

## Serial Device Server Modbus Gateway



- Support Modbus Gateway Function
- Supports Modbus RTU to Modbus TCP
- Supports for multiple Hosts
- Supports customs heartbeat and registration package feature
- Supports “Transcoding” Functions
- RS485 can drive 32 Load
- Supports data submission and sending functions in HTTP mode.

### MODBUS RTU/ASCII to MODBUS TCP/IP

- ✓ The XCORN 5143D is a kind of RS485 device data collector/IOT gateway specially designed for industrial environment, which integrates serial port server, Modbus gateway, MQTT gateway, RS485 to JSON and other functions.
- ✓ It has an RS485 interface and a 10M/100M Ethernet interface. It uses guide-way type installation way, the volume is compact and installation is convenient..
- ✓ It has powerful functions of IOT gateway, which is very suitable for collecting all kinds of RS485 instruments and sensors in the industrial field, including collection of local network or uploading to cloud server for independent collection and posting.
- ✓ Terminal type power supply access, 9~24V wide voltage input.

## Technical Features

| Figure                                       |  |               |  |
|--|--|---------------|--|
| Interface:                                   | 485: Terminal                                      |               |  |
| Power Supply:                                | terminal   |               |  |
| Size:  | L x W x H =8.7cm×3.6cm×5.9cm                       |               |  |
| Communicate Interface                        |  |               |  |
| Ethernet:                                    | 10M/100M, 2KV surge protection                     |               |  |
| Serial                                       | RS485×1: RXD, TXD, GND                             |               |  |
| Serial Parameters                            |  |               |  |
| Baud rate:                                   | 1200~115200bps                                     | Parity:       | None, odd check, even check, mark, space |
| Data bits:                                   | 5~9  | Flow control: | None                                     |
| Software                                     |  |               |  |
| protocol:                                    | ETHERNET, IP, TCP, UDP, HTTP, ARP, ICMP, DHCP, DNS |               |  |
| Setting method :                             | ZLVirCom, WEB browser, device management library   |               |  |
| Net communication method:                    | TCP/IP direct communicate, Virtual serial          |               |  |
| Work Mode                                    |  |               |  |
| TCP server, TCP client, UDP, Real Com Driver |  |               |  |
| Power Requirement                            |  |               |  |

## Application

- Building
- E-guard System
- Security System
- Bank
- Medical Automation



- Stock Trading System

- Power
- Electronic
- Intelligent Instrument



- Point of Sells (POS) System

- Industrial Automation System



- Information Appliances



## Hardware Features

- Guide-way design: suitable for internal installation of cabinet in industrial field.
- Compact size: relative to the ordinary serial port server, the width is small, does not take up space.
- Terminal type power supply, 9~24V wide voltage input, with anti-opposite power connection protection.
- Terminal RS485 interface, support 32 slave devices, baud rate support 300 ~ 115200bps.
- 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 MQTT gateway functionality.
- Support JSON to Modbus RTU and 645 meter protocol, support HTTP POST, HTTP GET format upload data.
- Support for NTP protocol to obtain network time for serial output for protocol content.
- 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.