Cport3104

4-port Serial to Ethernet Converter



- Support 4 serial ports
- Support Modbus RTU to Modbus TCP protocol conversion
- 10/ 100Mbps Ethernet port and support Auto
 MDI/MDIX
- Built-in 15KV ESD serial port protection
- -40°C~85°C working temperature

Product Description

Cport3104 is 4-port serial to Ethernet converter. It adopts Cortex-M7 solution, which has a main frequency up to 400MHz, powerful performance, fast transmission speed, and high reliability. Equipped with a deeply optimized TCP/IP stack, built in hardware and software watchdog and a variety of keepalive mechanisms, Cport3104 keeps online all the time. It supports TCP Client, TCP Server, UDP Client, UDP Server and HTTPD Client working modes, achieves data transparent transmission via simple configuration.

The Cport3104 supports Modbus RTU Master for retrieving field site data from serial meters. After collecting data, users can convert serial data to MQTT json format data, allowing users to get field site data. This two-in-one design reduces system complexity and the amount of space required in the network topology, as well as overall installation time.

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Product Features

- Support 4 serial ports working independently
- Support 9-36V wide voltage input, with reverse polarity protection.
- Support Modbus RTU to Modbus TCP protocol conversion.
- Support keepalive mechanism to quickly detect the dead connections and reconnect
- Support hardware watchdog, automatically restarts when the device goes down
- Provide remote serial access over the Internet for industrial serial devices
- 10/100Mbps Ethernet port and support Auto MDI/MDIX
- Software selectable RS-232/422/485 3-in-1 serial port(Cport31xx models)
- Rugged metal housing with IP30 protection for wall or optional DIN-Rail mount
- Built-in 15KV ESD serial port protection
- Support a wide industrial operating temperature,-40 ℃~85 ℃
- Flexible serial port data framing setting, which can satisfy user's various demands for data packets segmentation
- Versatile operation modes: TCP Server, TCP Client, UDP, HTTP client, Websocket server
- Support virtual COM ,COM Port Redirect
- Firmware upgrading via Web Browser and Windows configuration tool
- Easy-to-use Windows configuration tool for auto discovery, multiple device setting and monitoring
- Choice of power input: AC-DC adapter(DC Jack) or DC direct(Terminal Block)
- High security via certificate verification SSL/TLS encryption for secure data transmission, HTTPS, TCPS, MQTTS
- Support modbus RTU master,edge computing, modbus gateway,MQTT gateway
- Cloud support: MQTT via AWS IOT, Thingsboard, Alibaba Cloud, EMQX, Tuya, Cumulocity IoT and so on



Technical Specifications

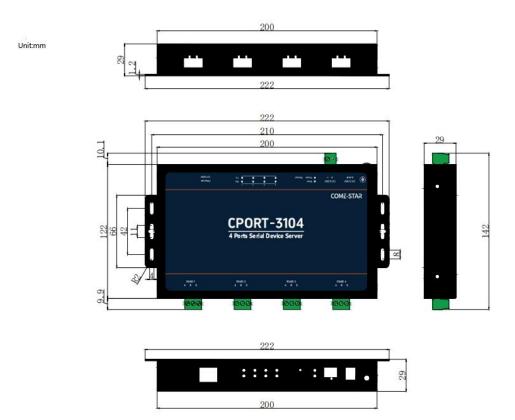
| Cport3104 S | pecification | | |
|-------------------------|--|--|--|
| Item | Parameter | Description | |
| | Input Voltage | DC 5.0~36.0V | |
| | Input Current | Mean: 76mA@12V | |
| | Dimensions | 222*142*29mm (L*W*H, including terminals and mounting bracket) | |
| | Installation | Panel mounting | |
| | Ground Screw | 1 | |
| Hardware Parameters | Operating Temperature | -40~85℃ | |
| | Storage Temperature | -40~ 105°C | |
| | Operating Humidity | 5% ~ 95% RH(non-condensing) | |
| | Storage Humidity | 5% ~ 95% RH(non-condensing) | |
| | Certifications | CE/FCC/ROHS | |
| | Ethernet Port Spec. | RJ45, 10/100Mbps, auto MDI/MDIX | |
| | Ethernet Port No. | 1 | |
| | Serial signals | RS-232: TxD, RxD, RTS, CTS, GND RS-422: Tx+, Tx-, Rx+, Rx-, GND RS-485-2w: A+, B-, GND | |
| | Serial Port No. | 4 | |
| | Serial Baud Rate | 600~921.6k(bps) | |
| Interface Parameters | Data Bit | 7, 8 | |
| | Parity | None, Even, Odd, Mark, Space | |
| | Flow Control | None, RTS/CTS (RS-232 only), XON/XOFF | |
| | RS-485 Pull-up and Pull-down Resistor | 2.2ΚΩ | |



| Hardware Protection | ESD-IEC61000-4-2 Level 4 | Air±15KV, contact±8KV |
|------------------------|-------------------------------|---|
| | Surge-IEC61000-4-5 level 3 | ±2KV |
| | EFT-IEC61000-4-4 Level 3 | ±2KV |
| | Network Protocols | TCP,UDP,IPV4,ARP,ICMP,DHCP,NTP,HTTP,TLS/SSL V3,DNS,IGMP,SNMP V1/V2C,MQTT |
| Software Parameters | IP Mode | Static IP, DHCP |
| | Modbus Gateway | Support |
| | Websocket | Support |
| | HTTP Client | Support |
| | UDP Broadcast/Multicast | Support |
| | User Configuring | Setup utility, webpage, AT commands |
| | Serial Packets Cache | Dynamic packet cache. For example: When the packet length is 10 byte, the serial port can cache 450 packets(4.5KB). When the packet length is 1460 bytes, the serial port can cache 10 packets(14.6KB). |
| | Ethernet Packets Cache | 48Kbyte |

Dimensions

Unit: mm (first angle projection)





Ordering Information

| Standard Model | 10/100M Copper Port | RS232/485/422 | Input Voltage |
|----------------|---------------------|---------------|---------------|
| Cport3104 | 1 | 4 | DC9~36V |



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