

## Cport3101

### 1×RS232/485/422 Port Wall-Mount Serial to Ethernet Converter



- 1 × RS232/485/422 port to 1 × 10/100 Mbps Ethernet port
- Operating Modes: TCP Server, TCP Client, UDP Server, UDP Client, HTTP Client
- Support virtual COM
- Support standard cloud platforms, including OneNET, Huawei Cloud, Tencent Cloud, and Alibaba Cloud
- Support Modbus RTU to Modbus TCP conversion, multi-host Modbus polling, and custom Modbus polling
- Support edge data acquisition with JSON reporting
- Built-in hardware and software watchdogs to prevent system crashes and ensure automatic recovery
- Support DC 5~36V power input
- High-strength metal shell, wall and panel mounting
- -40°C ~+85°C working temperature range

### Product Description

Cport3101 is an industrial serial device server developed by COME-STAR Communication. It provides 1 × 10/100 Mbps Ethernet port and 1× RS232/485/422 serial interface to adapt to different application scenarios. The serial interface supports baud rates from 600 bps to 230400 bps and flexible configuration of data bits, stop bits, and parity modes.

This serial-to-Ethernet converter offers simple parameter configuration through a built-in web interface, AT commands, or configuration software, reducing development complexity and deployment time.

Cport3101 serial device server supports multiple communication modes, including TCP Server, TCP Client, UDP Server, UDP Client, and HTTP Client. It can also work as a Modbus gateway, enabling protocol conversion such as Modbus RTU to Modbus TCP with multi-host polling and custom Modbus polling.

To ensure reliable operation in demanding environments, the COME-STAR RS232/422/485 to Ethernet adapter supports features such as heartbeat packets, registration packets, keepalive mechanisms, and hardware and software watchdog functions to detect abnormal connections and automatically restore communication. With wide operating temperature tolerance and strong EMC protection, it is suitable for long-term deployment in industrial environments.

## Product Features

- Support RS232, RS485, RS422 serial signals, selectable according to project requirements to reduce investment cost
- Serial baud rate configurable from 600 bps to 230.4 Kbps
- Operating modes selectable as TCP Client, TCP Server, UDP Client, UDP Server, HTTPD Client, MQTT
- Support Modbus gateway function for easy conversion between Modbus RTU and Modbus TCP protocols
- Support automatic polling of Modbus commands with millisecond-level data acquisition, optionally report via transparent transmission or JSON protocol to server
- Support edge computing function, collect and read/write data in JSON format over MQTT or TCP channels
- Support MQTT function to connect to standard MQTT cloud platforms for transparent data transmission
- Support quick setup for connection to Alibaba Cloud to enable data transparent transmission
- TCP Server supports up to 16 client connections, connected IPs displayed, data sent/received based on active connections
- In TCP Server mode, when maximum connections are reached, option to drop old connections for new ones
- Support TCP Client short connection function with customizable disconnection time
- Support timeout reboot function with customizable restart time
- Customizable registration and heartbeat packet mechanism to ensure reliable connection and prevent dead connections
- Support DHCP to automatically obtain IP, DNS resolution with configurable server address
- 10/100 Mbps adaptive Ethernet interface with auto MDI/MDI-X
- Support virtual serial port with software
- Multiple parameter configuration methods: WEB interface, AT commands, serial protocol configuration, network protocol settings
- Factory programmed with a globally unique MAC, supports software and hardware factory reset
- Industrial-grade design with hardware watchdog for ultra-high reliability

## Technical Specifications

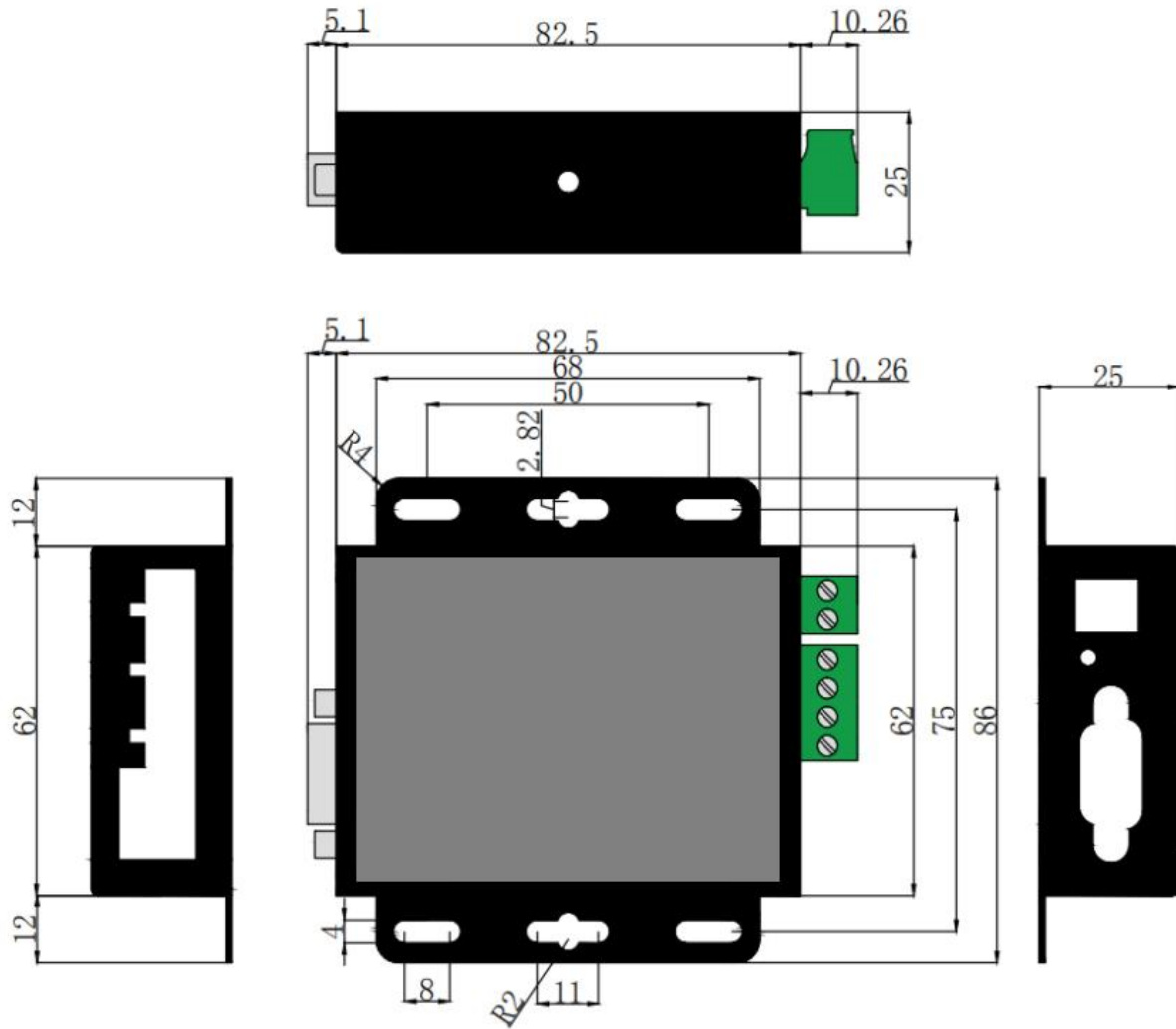
Software	
Network Protocol	IP, TCP, UDP, IPv4, DHCP, DNS, HTTP, ICMP
IP Obtaining Method	Static IP/DHCP
DNS	Support
User Configuration	Built-in webpage, configuration software, configuration protocol, AT commands
Operating Modes	TCP Server, TCP Client, UDP Server, UDP Client, HTTP Client, MQTT
MQTT	Support. Quick connection to Alibaba Cloud.
Modbus	Modbus RTU to Modbus TCP, multi-host polling, custom Modbus polling
Custom Modbus Polling	Support automatic polling of up to 5 commands, optionally report via transparent transmission or JSON protocol
Edge Computing	Support, up to 25 points
Number of TCP Server Clients Supported	Configurable, default 4, maximum 16.
Ethernet Packet Buffer	Send: 6K Bytes Receive: 6K Bytes
Serial Packeting	Packeting Time: Four-byte sending time Packeting Length: 400 Bytes
Serial Packet Buffer	Receive: 1K Bytes
Heartbeat Package	Support customizable heartbeat packet
Registration Package	Support customizable registration packet
Average Transmission Delay	< 10 ms (within LAN)

HTTPD Client	Support
UDP	Support
Virtual COM	Support
RFC2217 Similar	Support
Additional Features	Index, No Data Restart
<b>Interface</b>	
100M Copper Port	1 × 10/100 Base-T(X) RJ45 port, auto MDI/MDI-X
Serial Port	<p>Serial Port: 1 × RS232 / RS485 / RS422 (cannot work simultaneously)</p> <p>RS-485 Pull-up/Down Resistor: 2.2 kΩ</p> <p>Data Bits: 5, 6, 7, 8</p> <p>Stop Bits: 1, 2</p> <p>Parity Bits:</p> <ul style="list-style-type: none"> <li>● 7-bit data: Odd, Even, Mark, Space</li> <li>● 8-bit data: None, Odd, Even</li> </ul>
Indicators	PWR, WORK, LINK, TX, RX
Button	Reload
<b>Power Supply</b>	
Input Voltage	DC 5~36V
Working Current	84 mA @5V, 36 mA @12V
Connection	DC 5.5 × 2.1 mm power jack or 2-pin terminal block
<b>Physical Characteristic</b>	
Dimensions	98.0 × 86.0 × 25.0 mm (including terminals and mounting brackets)
Installations	Wall or panel mount

Working Environment	
Operating Temp	-40°C ~+85°C
Storage Temp	-40°C ~+105°C
Relative Humidity	5%~95% (non-condensing)
Industrial Standard	
EMC	Level 3 ESD (IEC 61000-4-2): Air ±4 kV, Contact ±4 kV Surge (IEC 61000-4-5): Serial/Ethernet 500 V, Power 1 kV EFT (IEC 61000-4-4): Serial/Ethernet 500 V, Power 1 kV
Certification	CE
Warranty	2 years

## Dimensions

Unit: mm



## Ordering Information

Standard Model	100M Copper Port	RS23/485/422	Input Voltage
Cport3101	1	1	DC 5~36V



## Contact Us

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