

## IOT-C101

Industrial Serial Device Server for RS232 and RS485 Modbus to Ethernet Conversion



## Outstanding Features

### Core Functionality

- Dual serial ports (RS232 + RS485) with simultaneous operation and bidirectional transparent data transfer.
- Multi-protocol support: TCP Server/Client, UDP, HTTP Client, WebSocket.
- Easily connect wired devices via DI/DO and a single port for RS232 or RS485.
- Optimized TCP/IP stack for seamless serial-to-Ethernet conversion.

### Industrial-Grade Design

- Wide temperature range: -40°C to 85°C.
- Power input: 5–36V (reverse polarity protected).
- Robust protection: 1.5kV electromagnetic isolation, EMC compliance (ESD, surge, EFT).

### Software & Protocols

- Modbus RTU/TCP protocol conversion with multi-host polling.
- Flow control: RTS/CTS (hardware) + Xon/Xoff (software).
- Auto-recovery: Keepalive mechanism + hardware watchdog.

### Applications & Benefits

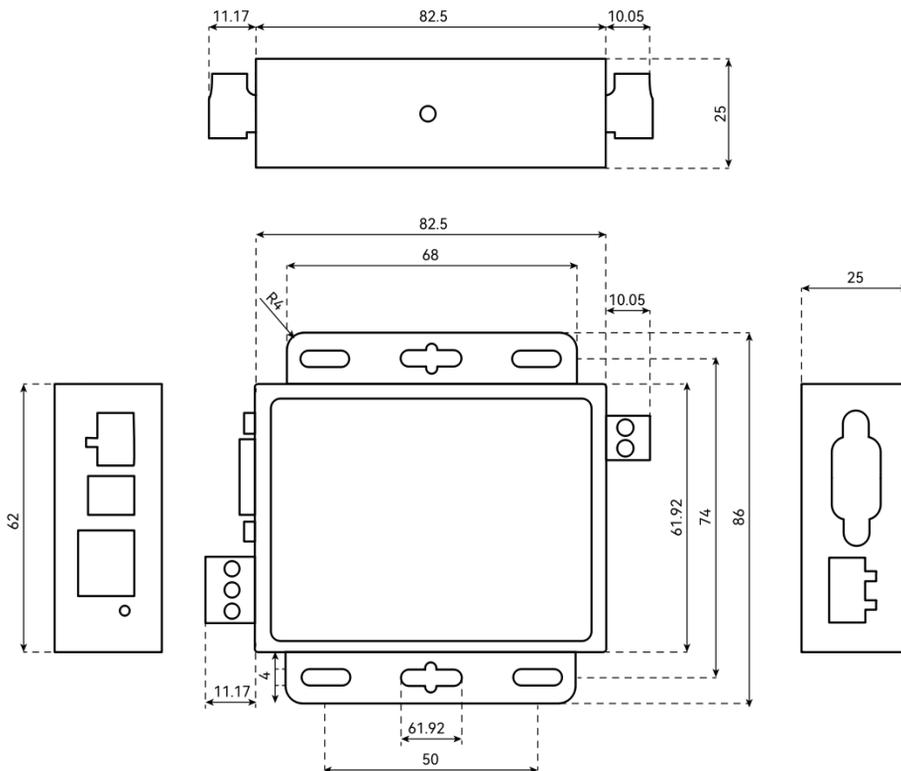
- Ideal for industrial automation, remote monitoring, and reliable serial-Ethernet bridging.
- Streamlines system integration and reduces development time.
- Supports RemoteMonit (Linovision Cloud Service) management.

## Hardware Specifications

Hardware Platform	
CPU	NXP Solution, Cortex-M7
Frequency	400 MHz
Power	
Power Supply	DC 5.0 ~ 36.0 V, 59.7mA @12V
Ethernet	
Port Number	1 x RJ45, 10 /100 Mbps, auto MDI/MDX, 1.5KV electromagnetic isolation
Serial Port	
Port Number	1 x RS232, DB9-male, 1 x RS485, 3-pin terminal block, can work simultaneously.
Baud rate	600 bps~230.4 Kbps
Data Bits	7, 8
Stop Bit(s)	1, 2
Parity Bit	None, Even, Odd, Mark, Space
Flow Control	Hardware: RTS/CTS (Only RS232) Software: XON/XOFF
Physical Character	
Dimensions (L*W*H)	82.5*86*25mm (or 3.25*3.39*0.98in)
Operating Temperature	-40 ~ 85°C (or -40 ~ 185°F)
Storage Temperature	-40~105°C (or -40 ~ 221°F)
Operating Humidity	5% ~ 95% (Non-condensing)
Storage Humidity	5% ~ 95% (Non-condensing)
Basic Features	
Network protocol	IP, TCP, UDP, HTTP, MQTT, SSL/TLS, ARP, ICMP, DHCP, DNS
IP Assignment	Static/DHCP
DNS Service	√
Built-in Webpage	√
Config Method	Built-in Webpage, Config Software, AT Command
Work Mode	TCP Server/TCP client/UDP Server/UDP Client/HTTPD client
Edge Computing	√, up to 128 points
MQTT Gateway	Standard MQTT protocol
Encryption	MQTT+SSL, TCPC+SSL

Modbus Gateway	Modbus RTU/TCP protocol conversion, Multi-host polling: up to 16 hosts
WebSocket	✓
RF2217 Similar	✓
Registration Packet	✓
Heartbeat Packet	✓
Serial Packets Cache	Dynamic packet cache. For example: When the packet length is 10 bytes, the serial port can cache 371 packets (3.71KB). When the packet length is 1460 bytes, the serial port can cache 10 packets (14.6KB).
Ethernet Packets	48KBytes
<b>Others</b>	
Certificate	CE, FCC, *RoHS, *WEEE

## Dimension (mm)



## Package Contents



IOT-C101



Rs232 Cable



Power Adapter



User Manual