

# USR-TCP232-300 Serial to Ethernet Device Server

## USR-TCP232-300 Introduction

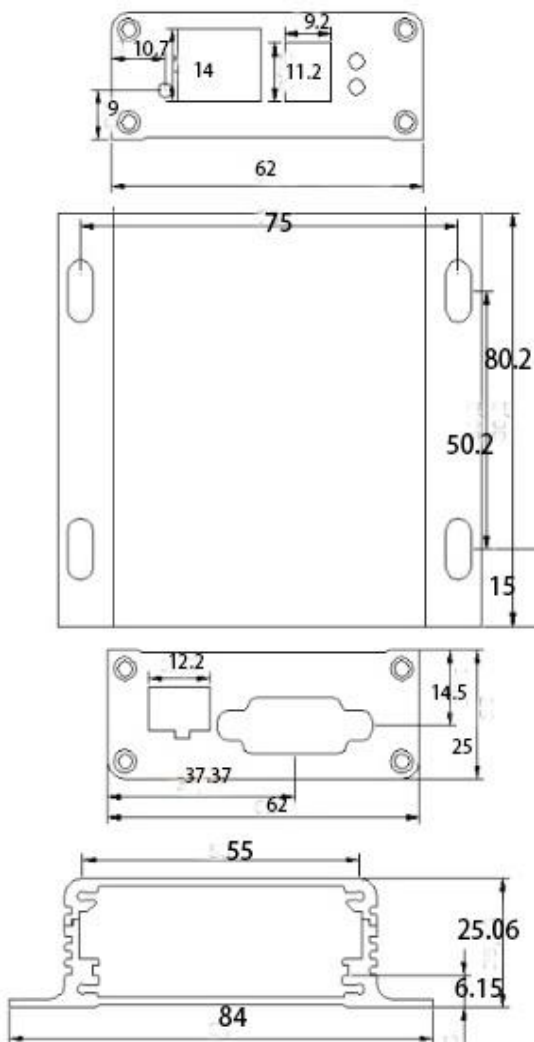
It is a data transparent transmission equipment for converting TCP or UDP socket data to serial RS232/RS485.

It has characters of low power consumption, 32 bits ARM processor on board, high speed and high stability.

## USR-TCP232-300 Features

- ◎10/100M auto detect interface.
- ◎Support AUTO MDI/MDIX , Can use a crossover cable or parallel cable connection
- ◎Work model : TCP Server /TCP Client /UDP Server /UDP Client
- ◎Network protocol : ETHERNET /ARP/ IP /UDP/ TCP /ICMP
- ◎32 bits ARM CPU inside , 5 V RS232/RS485 level
- ◎Unique heartbeat package mechanism to ensure connection is reliable , put an end to connect feign death.
- ◎Configuration software, TCP/UDP test soft, RS232 debug soft
- ◎Across the gateway, across switches, routers.
- ◎Under UDP mode, Packet Broadcast is prohibited , with strong anti-interference ability.
- ◎Transmission distance : RS232-15 m, RS485-1000 m
- ◎Virtual serial port supported

## USR-TCP232-300 Size( Unit : mm)



## Specification

### System information

|           |          |
|-----------|----------|
| Processor | ARM      |
| Flash     | 32K byte |

### Ethernet

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Port Number        | 1                                                                     |
| Interface Standard | 8 Pin RJ45                                                            |
| Rate               | 10/100 Mbps, MDI/MDIX auto switch between cross and direct connection |
| Buffer             | Send : 2K bytes<br>Receive : 1K bytes                                 |
| Network Protocol   | IP / TCP / UDP / ARP / ICMP                                           |
| Protection         | 2KV electromagnetism isolation                                        |

### Serial

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| Ports           | 2 (1*RS-232, 1*RS-485)<br>Can not work at the same time |
| Interface       | RS-232 : DB9 cellular type<br>RS-485: 2 Wire (A+, B-)   |
| Baud Rate       | 300~460.8K                                              |
| Data Bits       | 5, 6, 7, 8                                              |
| Stop Bit        | 1, 2                                                    |
| Check Bit       | None, Even, Odd, Space, Mark                            |
| Flow Control    | Null                                                    |
| Buffer          | RX : 800 bytes TX : Null                                |
| Protection      | RS-485: ESD Protection 2KV                              |
| RS-485 Resistor | Pull-up and Pull-Down: 2.2 KΩ                           |

### Software

|                |                                          |
|----------------|------------------------------------------|
| Virtual Serial | Windows 2000 or higher (32 bit/64 bit)   |
| Configuration  | Computer set-up software/ Serial command |

### Parameter

|                |                                           |
|----------------|-------------------------------------------|
| Dimensions     | 95 x 85 x 25 mm                           |
| Operating Temp | -25~ 75°C                                 |
| Storage Temp   | -45 ~ 105°C, 5 ~ 95% RH (no condensation) |

### Power

|                 |                  |
|-----------------|------------------|
| Input           | DC 5 ~ 7 V       |
| Working Current | 150mA (Aver) @5V |
| Consumption     | <1W              |

### Accessories

|               |         |
|---------------|---------|
| Power Adapter | 5V1A    |
| DB9 cable     | 1 Piece |

### More

|             |         |
|-------------|---------|
| Certificate | CE,FCC  |
| Warranty    | 2 Years |

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