

## Model: UT-6312MT

(Product Name: 10/100M to 2 Ports RS-485/422 Serial Device Server )

# Datasheet



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## 1. Overview

UT-6312 MT serial device server, also called terminal server or serial server, is a converter between asynchronous serial port RS-422/485 and Ethernet. It is a standalone intelligent device with CPU and full TCP/IP protocol stack. It accomplishes transparent data transfer between 422/485 and Ethernet in both directions, allowing RS-422/485 serial devices to connect to the network immediately. The converter provides a web configuration interface that allows the user to set the converter's operating parameters flexibly. Industrial grade high standard design, easy to install and use by customers; widely used in industrial communication, data data conversion systems.

## 2. Main Functions & Features

- Bidirectional data transmission over Ethernet and RS-485/422/TTL
- Integrated 2 RS-485/422/TTL communication interface, supporting 300bps-921600bps communication rate
- Integrated 1 10M/100M Ethernet interface
- Power supply interface: DC-JACK, 5.08-3P Phoenix terminal
- Parity bit: None,Odd,Even
- Data bit 5, 6,7,8
- Stop bit 1, 1.5, 2
- Flow control RTS/CTS, XON/XOFF
- Working voltage: DC 5V $\pm$ 5%
- Working current:  $\leq$  90mA@5V
- Operating temperature: -40~85°C
- Storage temperature: -40~85°C
- Operating humidity: 5~95% (no condensation)
- Storage humidity: 5~95% (no condensation)
- Electrostatic protection: air 4kV, contact 4kV
- Surge protection: Serial port 600W

## 3. Indicator Light

- PWR: red, power indicator; long light when power supply is normal.

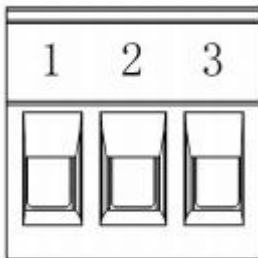
- RUN: green, system operation indicator; flashes when the system is running normally.
- T/R1: green, communication indicator; light is on when serial port 1 sends or receives data; off when sending or receiving is complete
- T/R2: green, communication indicator; when serial port 2 sends or receives data, the indicator is on; off when sending or receiving is complete

## 4. Key Definition

- Reset: button, press for 1 second to reset the system, press for 5 seconds to restore the device to factory setting

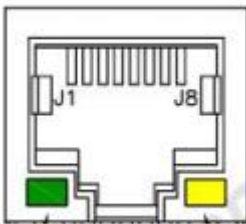
## 5. Pin Definition

### 5.1. UT-6312 series power supply pin definition:



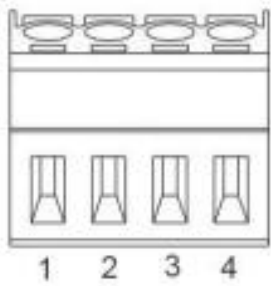
No.	Signal	Description
1	VCC	Power input positive
2	PE	Ground
2	GND	Power input ground

### 5.2. UT-6312 series network pin definition:



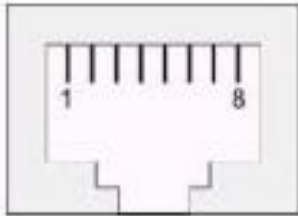
RJ45	Definition	Description
1	TX+	Transmitting Signal +
2	TX-	Transmitting Signal -
3	RX+	Receiving Signal+
6	RX-	Receiving Signal-
4, 5, 7, 8	-	-

### 5.3. UT-6312 series serial port pin definition:



Model		UT-6312MT		UT-6312MT-TTL
NO.	Signal	RS-485	RS-422	TTL(3.3V)
1	T/R+	485-A	422 transmitting+	Transmitting
2	T/R-	485-B	422 transmitting-	Receiving
3	RXD+	-	422 receiving+	-
4	RXD -	-	422 receiving-	-

RJ45



Model	UT-6312C	UT-6312C-TTL
No.	RS-232	TTL(3.3V)
1	TXD(RS-232 transmitting)	TX( transmitting)
2	RXD(RS-232 receiving)	RX( receiving)
3	RTS	-
4	CTS	-
5	-	-
6	GND	GND
7	-	-
8	-	-

## 6. Appearance

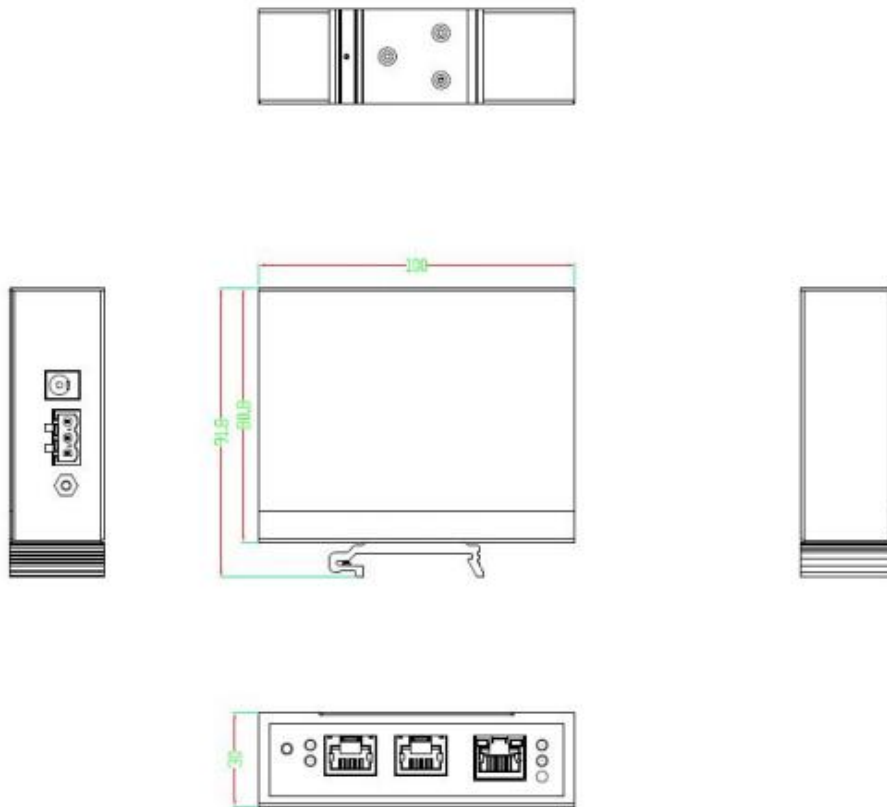


UT-6312C Product View

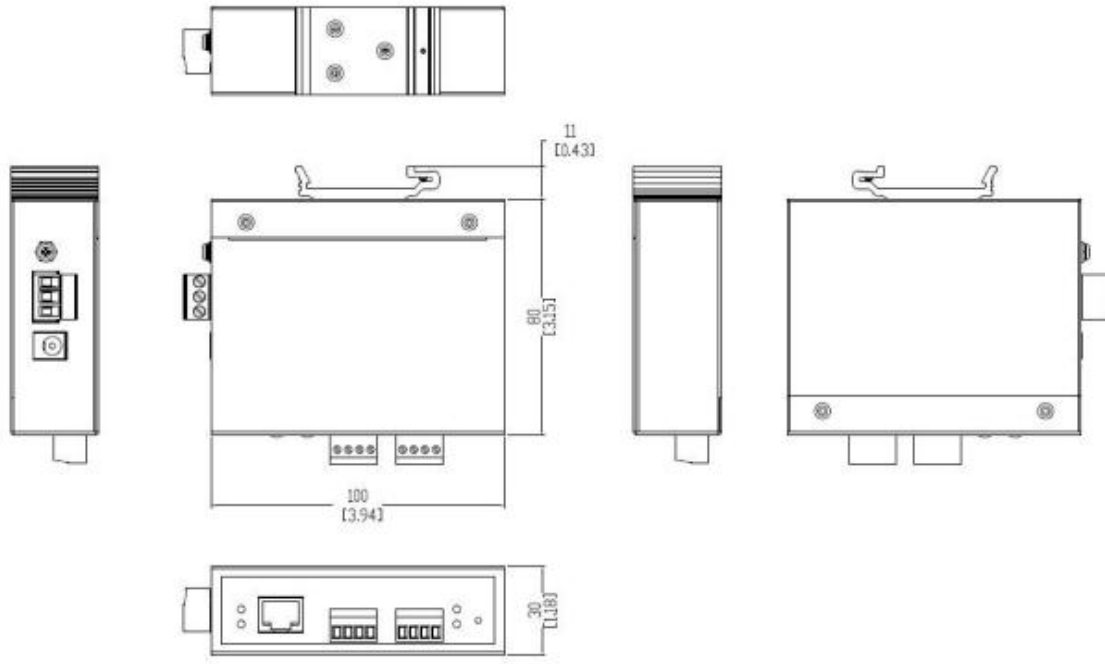


UT-6312MT Product View

## 7. Structure dimensions



UT-6312C



UT-6312MT