

## Model:UT-6808MT-I

(Product Name: 10/100M to 8 ports 485/422 Isolated Serial Device Server )

# Datasheet



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## 1. Overview

UT-6808MT-I serial device server provides a serial to network function that converts RS-485/422 serial ports into TCP/IP network interfaces, enabling transparent bi-directional data transmission between RS-485/422 serial ports and TCP/IP network interfaces. Enables serial devices to immediately have TCP/IP network interface functionality.

## 2. Major Functions & Features

- With metal housing and multiple installation design, suitable for industrial control site applications.
- Wide power input (12~36VDC or 12~48VDC), suitable for input and output isolation method to supply power, with stronger anti-interference ability, more reliable and safer.
- Up to 8 RS485/RS422 ports, between each serial port and between the system and serial port are isolated from each other, which makes the system work more reliable and safer. Isolation withstand voltage is 1KV.
- Support a wide baud rate range of 300-921600bps, suitable for applications between different devices.
- Support multiple operation modes: VCOM, MCP, TCP SERVER, TCP CLIENT, UDP CLIENT, Reverse Telnet Mode, Remote Pair mode, Modbus TCP SERVER, Modbus TCP CLIENT, MQTT.
- Support upgrade web firmware upgrade, convenient for special applications in different scenarios.

## 3. Technical Parameters

	UT-6808MT-I
CPU	32bit 400MHZ
RAM	128M
Ethernet interface	10/100M (built-in)1.5KV electromagnetic isolation) auto MDI/MDI-X Ethernet interface, RJ45 interface
Serial standard	RS-485. RS-422 signal isolation output
Serial port	8×4Pin 3.81mm terminals
Indicator light	Power indicator light PWR. Running indicator light RUN
Power connector	DC-005 DC socket or 3Pin 5.08 terminal for power supply, with built-in protection against reverse connection, to avoid damage to the equipment by wrong positive and negative connection
Power range	DC12~36V(power input and output)
Function buttons	1 factory reset button RESET
Max. Power consumption	4.2W
Housing	Metal housing, protection level IP30
Operating environment	Storage temperature: -40~85°C Operating temperature: -40~85°C Relative humidity: 5% ~95% (Non-condensation)
dimensions L×W×H	161mm×91mm×37mm ( Without mounting parts )
Net. Weight	350g

## 4. Software Parameters

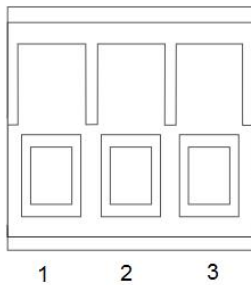
Operating System	Based on Linux
Protocol support	ARP,IP, ICMP, UDP, TCP, HTTP,DHCP,SNMP,MQTT,MODBUS
Configuration method	Web browser, VCOM Utility(Virtual COM 仅Windows)
Operating Mode	VCOM,MCP,TCP SERVER,TCP CLIENT,UDP CLIENT, Reverse Telnet Mode ,Remote Pair mode, Modbus TCP SERVER, Modbus TCP CLIENT,MQTT
Baud rate	300-921600bps

## 5. Certification standards

EMC	55032/24
EMI	Class A
EMS	IEC61000-4-2 ESD: Contact 6kV, Air 8kV IEC61000-4-3 RS: 80MHz-1GHz 3V/m IEC61000-4-4 EFT: Power 1kV, Signal0.5kV IEC61000-4-5 Surge: Power differential mode 1KV, common mode 2KV (1.2/50 us) Ethernet ports differential mode 1KV, common mode 2KV (10/700 us) RS-485/422 differential mode 1KV, common mode 2KV (10/700 us) IEC61000-4-6 CS: 150KHz-80MHz 3V/m

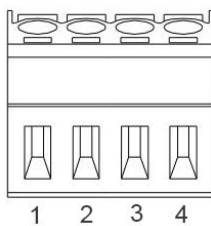
## 6. Interface definitions

1. Power interface terminal definition:



5.08 Terminal	Power interface
1	V+
2	PGND
3	V-

2. UT-6808MT-I series terminal pin definition:



3.81 Terminal	RS-485	RS-422	Description
1	T/R+	TX+	Transmit/receive+
2	T/R-	TX-	Transmit/receive-
3		RX+	Receive+
4		RX-	Receive-

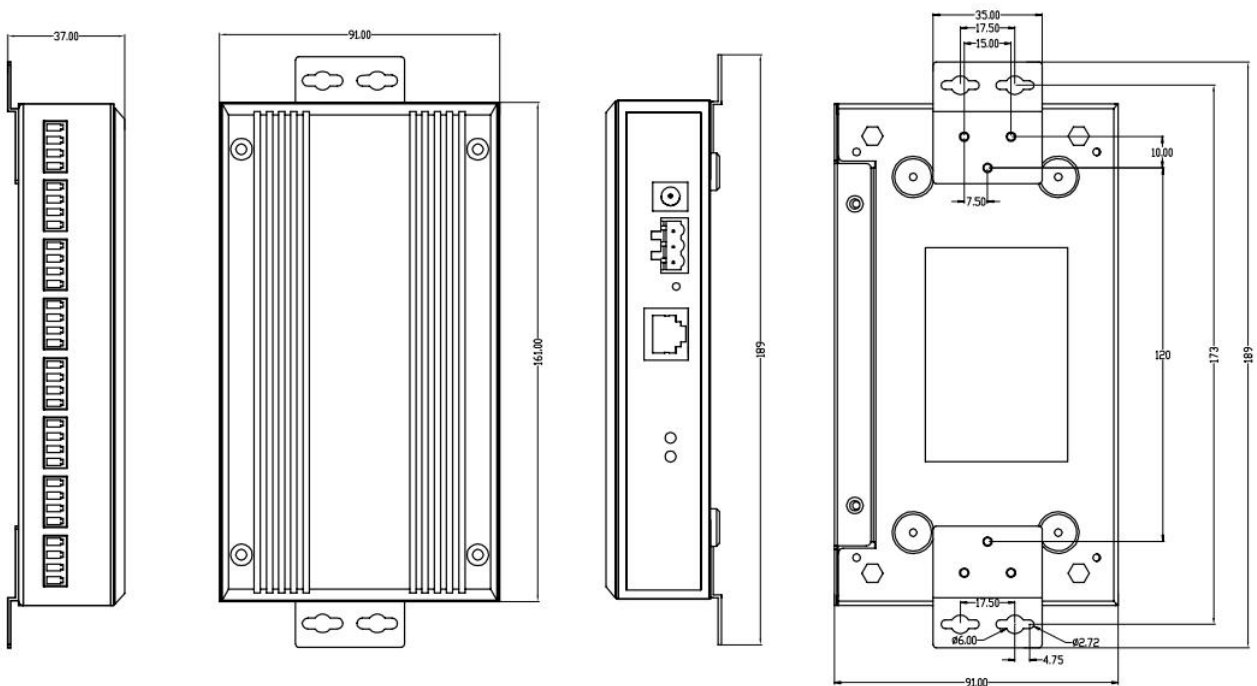
## 7. Appearance



UT-6808MT-I

## 8. Structure dimensions

- Physical dimensions: Length  $161 \pm 0.5\text{mm}$ , Width  $91 \pm 0.5\text{mm}$ , Height  $37\text{mm} \pm 0.5\text{mm}$ .



## 9. Packaging





## 10. Accessories

Name	QTY(unit)
UT-6808MT-I Device	1PCS
CD	1PCS
Certificate	1PCS
Warranty	1PCS
Rail seat	1PCS

## 11. Ordering

Model	Supply voltage	Serial interface	Communication mode
UT-6808MT-I	12-36V(isolated)	3.81 terminal	RS485 RS422
UT-6808MT-I-48	12-48V(non-isolated)	3.81 terminal	RS485 RS422