Model:UT-6808 Series

(Product Name：10/100M to 8 Ports RS-232/485/422 Serial Device Server)

Datasheet

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1. Overview

UT-6808 serial device server provides a function that converts RS-232/485/422 serial ports into TCP/IP network interfaces, enabling transparent bi-directional data transmission between RS-232/485/422 serial ports and TCP/IP network interfaces. Enables serial devices to immediately have TCP/IP network interface functionality.

2. Main Functions & Features

- With metal housing and multiple mounting design, suitable for industrial applications
- Wide power input (12~48VDC), suitable for different power supply methods
- Up to 8 RS232/RS485/RS422 ports for multi-serial applications
- Wide baud rate range of 300-921600bps, suitable for inter-device applications
- Support multiple operation modes: VCOM, MCP, TCP SERVER, TCP CLIENT, UDP, Remote Pair mode, Modbus TCP SERVER, Modbus TCP CLIENT, MQTT.
- Support secondary development of software, to meet the special applications of different scenarios.
- Support for Web firmware upgrades for special applications in different scenarios

3. Technical Parameters

	UT-6808	UT-6808MT
Processor	32bit 400MHZ	32bit 400MHZ
Storage	128M	128M
Ethernet interface	10/100M(Built-in 1.5KV electromagnetic isolation) auto MDI/MDI-X Ethernet interface, interface RJ45	10/100M（Built-in 1.5KV electromagnetic isolation） auto MDI/MDI-X Ethernet interface, interface RJ45
Serial Standard	RS-232, RS-485, RS-422	RS-485, RS-422
Serial Connector	8×RJ45	8×4Pin 3.81mm terminals
Indicator light	Power indicator light PWR, Running indicator light RUN	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	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	DC12~48V	DC12~48V
Function buttons	1 factory reset button RESET	1 factory reset button RESET

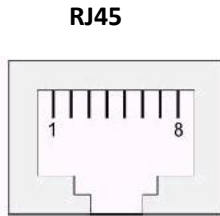| Max. power consumption	4.2W	4.2W
Housing	Metal housing, protection level IP30	Metal housing, protection level IP30
Operating environment	Storage temperature: -40~85°C Operating temperature: -40~85°C Relative humidity: 5% ~95% (Non-condensation)	Storage temperature: -40~85°C Operating temperature: -40~85°C Relative humidity: 5% ~95% (Non-condensation)
Dimensions L×W×H	161mm×91mm×37mm（Without mounting parts）	161mm×91mm×37mm（Without mounting parts）
Net. Weight	350g	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 Only Windows)
Operating Mode	VCOM,MCP,TCP SERVER,TCP CLIENT,UDP,Remote Pair mode,Modbus TCP SERVER,Modbus TCP CLIENT,MQTT
Baud rate	300-921600bps
Data Bits	5,6,7,8
Stop Bits	1,2
Check Bits	None,Odd,Even
Flow Control	RTS/CTS,DTR/DSR,XON/XOFF（Only RS-232）

5. Product Certification

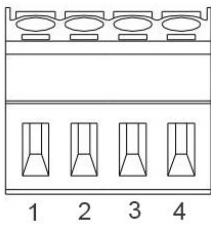| EMC	55032/24
EMI	Class A
EMS	IEC61000-4-2 ESD: Contact 4kV,Air 8kV IEC61000-4-3 RS: 80MHz-1GHz 3V/m IEC61000-4-4 EFT: Power 1kV,Signal 0.5kV IEC61000-4-5 Surge: Power differential mode 1KV, common mode 2KV（8/20） 　　　　　　　　　　　Ethernet ports differential mode 1KV, common mode 2KV（10/700） 　　　　　　　　　　　RS-232/485/422 differential mode 0.5KV, common mode 1KV IEC61000-4-6 CS: 150KHz-80MHz 3V/m

6. Interface definitions

1.UT-6808 series RJ45 pin definition：

RJ45

RJ45	RS-232	RS-485	RS-422
1	TxD	DATA+	TxD+
2	RxD	DATA-	TxD-
3	RTS		RxD+
4	CTS		RxD-
5	DSR		
6	GND	GND	GND
7	DTR		
8	DCD		

2.UT-6808MT series terminal pin definition:

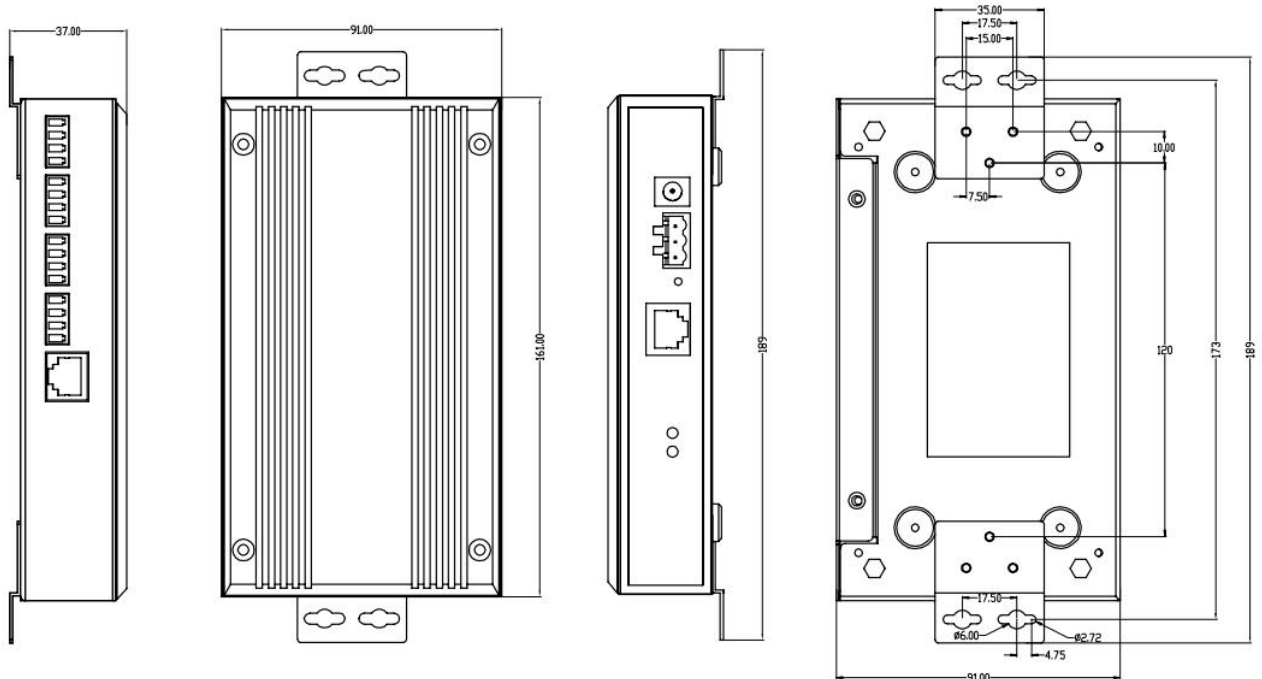| 3.81 Terminal	RS-485	RS-422	Description
1	T/R+	TX+	Sending/Receiving+
2	T/R-	TX-	Sending/Receiving-
3		RX+	Receiving+
4		RX-	Receiving-

7. Appearance

UT-6808 Product View

UT-6808MT Product View

8. Structure dimensions

Physical dimensions: Length 161±0.5mm, Width 91±0.5mm, Height 37mm±0.5mm

9. Ordering

Module	Supply Voltage	Connection	Communication Mode
UT-6808	12-48V	RJ45	RS-232/RS485/RS422
UT-6808MT	12-48V	3.81 Terminal	RS485/RS422
UT-6808-5V	5V	RJ45	RS-232/RS485/RS422
UT-6808MT-5V	5V	3.81 Terminal	RS485/RS422