

Model:UT-6801 Series

(Product Name: 10/100M to 1 Ports RS-232/485/422 Serial Device Server)

Datasheet



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1. Overview

UT-6801 serial device server provides a serial to network 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. Major Functions & Features

- With metal housing and multiple installation design, suitable for industrial control site applications.
- Wide power input (12~57.6VDC), suitable for different field power supply methods
- There is 1 RS232/RS485/RS422, to meet the application of multiple serial ports
- 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, Remote Pair mode, Modbus TCP SERVER, Modbus TCP CLIENT, MQTT.
- Support upgrade Web firmware upgrade, convenient for special applications in different occasions

3. Technical Parameters

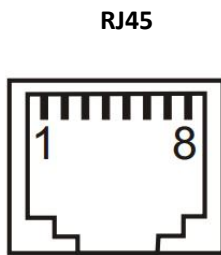
Processor	32bit 400MHZ
Storage	128M
Ethernet interface	10/100M(Built-in 1.5KV electromagnetic isolation) auto MDI/MDI-X Ethernet interface, RJ45 interface
Serial Standard	RS-232, RS-485, RS-422
Serial RS-232 port	DB9 male
Serial RS-485/422 port	3.81 unplugged terminal block
Indicator light	Power indicator light PWR, Running indicator light RUN, Serial port transmit and receive indicator DATA.
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	DC12~57.6V
Function buttons	1 factory reset button RESET
Max. power consumption	1.6W
Housing	Metal housing, protection level IP30
Operating environment	Storage temperature: -40~85°C Operating temperature: -40~85°C Relative humidity: 5% ~95% (Non-condensation)
Mounting method	Default rail mount, fixed piece mount (wall mount optional)
Dimensions L×W×H	100mm×80.8mm×30mm (Without mounting parts)
Net. Weight	270g

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. Interface definitions

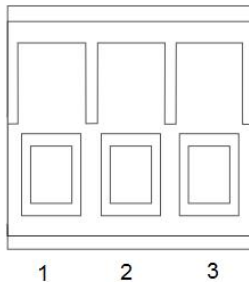
1.Ethernet RJ45 interface definition:



PIN No.	MDI Signal	MDI-X Signal
1	BI_DA+/TX+	BI_DB+/RX+
2	BI_DA-/TX-	BI_DB-/RX-
3	BI_DB+/RX+	BI_DA+/TX+
4	-	-
5	-	-
6	BI_DB-/RX-	BI_DA-/TX-
7	-	-
8	-	-

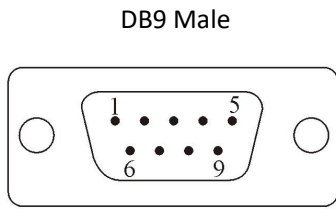
Note: "TX±" is transmitting data±, "RX±" is receiving data±, "-" is unused.

2. Power interface terminal definition:



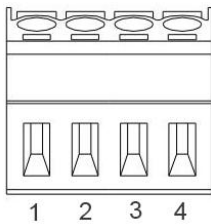
5.08 Terminal block	Power connector
1	Power supply positive V+
2	Grounded (PGND)
3	Power supply negative V-

3. UT-6801 RS-232 pin definition:



DB9 male	RS-232
1	N/C
2	RXD
3	TXD
4	N/C
5	GND
6	N/C
7	RTS
8	CTS

4. UT-6801MT RS-485/422 terminal pin definition:



3.81 terminal block	RS-485	RS-422	Description
1	T/R+	TX+	Transmit/receive positive
2	T/R-	TX-	Transmit/receive negative
3		RX+	Receive positive
4		RX-	Receive negative

6. Appearance

