

Model:UT-6001B

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

Datasheet



UTEK TECHNOLOGY (SHENZHEN) CO., LTD.

Add: Room 1001, Building 7, Skyworth Innovation Valley, No. 8, Tangtou No.1 Road,
Shiyan Old Street, Bao 'an District, Shenzhen

Tel: +86-755-81202008

Fax: +86-755-27886083

Http: www.uotek.com

1. Overview

UT-6001B 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 on-site power supply methods.
- RS232\RS485\RS422 serial port can be set to work in one of the serial ports through software settings.
- 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, Modbus TCP SERVER, Modbus TCP CLIENT.
- Support upgrade web firmware upgrade, convenient for special applications in different scenarios.

3. Technical Parameters

CPU	32bit 120MHZ
RAM	256K
Ethernet interface	10/100M (built-in 1.5KV electromagnetic isolation) adaptive MDI/MDI-X Ethernet interface, interface mode RJ45
Serial Standard	RS-232, RS-485, RS-422
Serial RS-232 port	DB9 male socket (pin type)
RS485/RS422 port	4pin 3.81 plug-in terminal block
Serial RS-485/422 port	Power indicator PWR, running indicator RUN, serial port transceiver indicator DATA.
Power connector	DC-005 DC socket or 3Pin 5.08 terminal power supply mode, built-in anti-reverse connection protection, to avoid damage to the equipment due to wrong connection of positive and negative
Power range	DC12~57.6V
Function buttons	1 factory reset button RESET
Max. power consumption	12V@50mA
Housing	Metal housing, protection level IP30
Installation	Default rail type installation, fixed plate installation (wall-mounted optional)
Operating environment	Storage temperature: -40~85° C Operating temperature: -40~85° C Relative humidity: 5% ~95% (non-condensing) 0~4000m
Altitude	0~4000m
Dimensions L×W×H	100mm x 80.8mm x 30mm (without mounting parts)
Net. Weight	248g

4. Software Parameters

Protocol support	ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, MODBUS
Configuration method	Web browser, VCOM Utility(virtual COM only Windows)
Operating Mode	VCOM,MCP,TCP SERVER,TCP CLIENT,UDP ,Modbus TCP SERVER ,Modbus TCP CLIENT
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. Certification standards

CE, Rohs/Reach

Safety requirements

Standard	Complies with IEC/EN 62368-1
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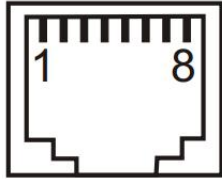
EMC test

project	Indicator requirements	Guideline
Conducted disturbance	CLASS A	EN55032
Radiated interference	CLASS A	EN55032
EFT	Signal port: 1kV, repetition rate 5kHz; Tr/Th: 50ns Criteria: B	IEC61000-4-4
ESD	Contact discharge 6kV 8kV air discharge Criteria: B	IEC61000-4-2
CS	Intensity: 3V Frequency: 150kHz~80MHz Criteria: A	IEC61000-4-6
RS	Field intensity: 3V/m Frequency band: 80MHz~2.7GHz; Criteria: A	IEC61000-4-3
SURGE	Power supply: 1kV (line-to-line) 2kV (line-to-ground) 1.2/50 Signal: 0.5K (line-to-line) 1kV (line-to-ground) 10/700 Criteria: B	IEC61000-4-5

6. Interface definitions

1. Ethernet RJ45 interface definition

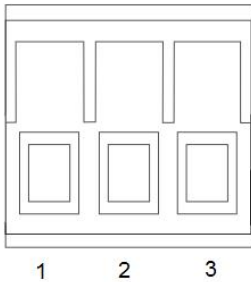
100Base-T pin definitions are shown in the following table:



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	-	-

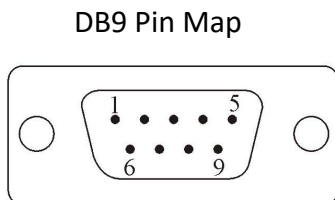
Note: "TX±" means transmit data±, "RX±" means receive data±, "-" means unused

2. Interface terminals definition:



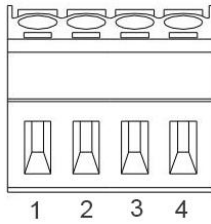
5.08 Terminals	Power interface
1	V+
2	PGND
3	V-

3. RS-232 pin definition:



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

4, RS-485/422 terminal pin definition:



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

7. Appearance



UT-6001B

10. Accessories

Name	QTY(unit)
UT-6001B Device	1PC
CD	1PC
Certificate	1PC
Warranty	1PC
Rail seat	1PC
switch	1PC