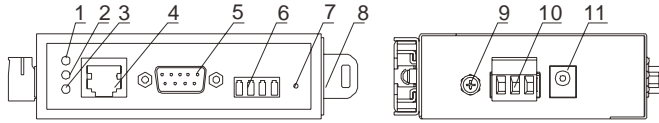


Single-Port Serial Server Quick Operation Manual

1. Functional diagram



- 1. Serial port TX/RX indicator
- 2. System Operation indicator
- 3. Power indicator
- 4. Ethernet RJ45 port
- 5. RS232 DB9-M port
- 6. RS485/422 Serial Interface
- 7. RESET
- 8. DIN rail Socket
- 9. Earth screw
- 10. Terminal block power input
- 11. DC jack power input

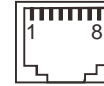
2. Technical Specifications

CUP	32bit 240MHZ Microprocessor
RAM	520K
Ethernet port	10/100Mbps(Embedded 1.5KV electromagnetic isolation), auto MDI/MDI-X, RJ45 type
Serial port	RS-232/RS485/422
Serial port type	DB9-Male (RS232), Terminal Block(RS-485/422)
Configurable serial port parameters	Baud rate: 300-921600bps, Parity bit: None, Odd, Even, Data bit:5,6,7,8 Stop bit:1,2
Indicator	Power indicator“PWR”, System Operation indicator“RUN”, Serial TX/RX indicator
Power port	Power Input: 3-Pin 5.08 terminal block or DC jack, built-in anti-reverse connection protection, prevents damage to the equipment due to incorrect positive and negative connections.
Power range	DC12-57.6V
Function button	1 factory reset button: RESET
Max. power consumption	12V @50mA
Case	Metal casing, IP30
Installation	DIN-Rail or fixed clips installation
Operating environment	Storage temperature: -40~85°C Operating temperature: -40~85°C Relative humidity: 5%~95% (non-condensing)
Altitude	0~4000m
Dimension	100mm×80.8mm×30mm(Not included installation parts)
Net weight	248g

3. Interface definition

- Ethernet port RJ45 definition
100Base-T Pin definitions are as shown in the table below:

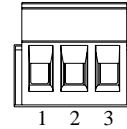
Pin No.	MDI signal	MDI-X signal
1	BI_DA+/TX+	BI_DB+/RX+
2	BI_DA-/TX-	BI_DB-/RX-
3	BI_DB+/RX+	BI_DA+/TX+
4	-	-
5	-	-
6	BI_DB-/RX-	BI_DA-/TX-
7	-	-
8	-	-



Note: "TX±" indicates transmitted data ±, "RX±" indicates received data ±, and "-" indicates unused.

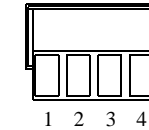
- Power port terminal block definition:

5.08 terminal block Pin	Power description
1	positive pole V+
2	Protective Earth
3	negative pole V-



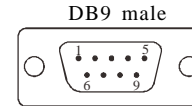
- Terminal Block RS-485/422 pinouts

3.81 Terminal Block	RS-485	RS-422
1	A	TX+
2	B	TX-
3		RX+
4		RX-



- DB9 Male RS232 port pinouts

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



4. Indicator status

Name	LED color	Function	Status
PWR	Red	Power indicator	Always on
RUN	Green	System running indicator	IS on, IS off, Alternate flashing
DATA (TX/RX)	Green	Serial port data indicator	With data flashes on, without data goes off.

5. Configuration Instructions

The device supports web management and configuration. Computers can access the device via the Ethernet port. The steps for logging into the device through a browser are as follows:

- Step 1 Configure the IP addresses of the computer and the device to be in the same network segment, and ensure that the network between the computer and the devices can be accessed by each other.
- Step 2 Enter the IP address of the device in the address bar of the computer browser. The default IP address is 192.168.1.125.
- Step 3 Enter the device's username and password in the login window. The default username is "admin" and the password is also "admin".
- Step 4 After entering the username and password, click the "Login" button, and you can then access the web configuration interface.

Notes: It is recommended to access this website using Google Chrome, Edge browser, or Firefox browser.

6. Handling of Common problems

FAQ	Solution
Forget the username and password	By pressing the RST button of the device, hold it for more than 5 seconds and then release. The device will automatically restart and restore to its factory settings.
Unable to log in through the WEB page	Check if the computer's IP address and the device are on the same network segment. The computer's IP address cannot be 192.168.1.125. Test the device's connectivity by running the "ping 192.168.1.125" command. After restoring the factory settings, try logging in again. Confirm that the IP address of the device, 192.168.1.125, is not being used by any other device. Check if there is any problem with the computer network cable.
Troubleshooting	<ol style="list-style-type: none"> 1. Check whether the power supply is properly connected, whether the power supply meets the input range of the device, and whether the power indicator of the device is constantly on. 2. Check whether the RUN indicator on the device is flashing in a pattern of 1 second on and 1 second off. 3. Check whether the working mode of the web configuration page is correctly set and whether the configuration parameters such as the port number are correct or not. 4. Check whether the serial port parameters such as port type, baud rate, parity bit, and stop bit configured on the web configuration page are correct or not. 5. Check whether the serial port wiring is correct or not.
Create Virtual Serial Port	The device supports the VSPA tool to create a virtual serial port. The tool needs to be downloaded from the official website. The device's working mode needs to be changed to VCOM.
Attention	<ol style="list-style-type: none"> 1. The power input of the device and the serial port interface are not isolated. When using an external shared power supply, be aware of that if there is a significant voltage difference between the two communication systems, this may cause damage to the equipment. It is recommended to use an isolated power supply to power this device independently. 2. It is recommended to use twisted-pair shielded cable for RS485 transmission, with the shield layer grounded at one end. When multiple slave devices are cascaded, RS485 should be connected in a "hand in hand" configuration, while RS232 should use shielded cables and the transmission distance should not exceed 10 meters.

7. Dimension

