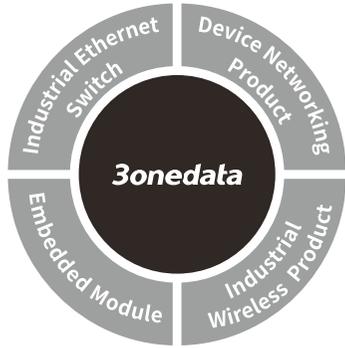


NP3008T & NP3108 & NP3016 & NP3116 Series Serial Device Server Quick Installation Guide



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【Package Checklist】

Please check whether the package and accessories are intact while using the serial device server for the first time.

- | | |
|-----------------------------|---|
| 1. Serial Device Server | 2. Quick installation guide |
| 3. Straight-through cable | 4. Rackmount lug |
| 5. Power line | 6. Two pairs of rubber shock absorbers pad |
| 7. Software installation CD | 8. Warranty card |
| 9. Certification | 10. 3IN1 RJ45 serial port to DB9-Male conversion line (3IN1 product specific) |

If any of these items are damaged or lost, please contact our company or dealers, we will solve it asap.

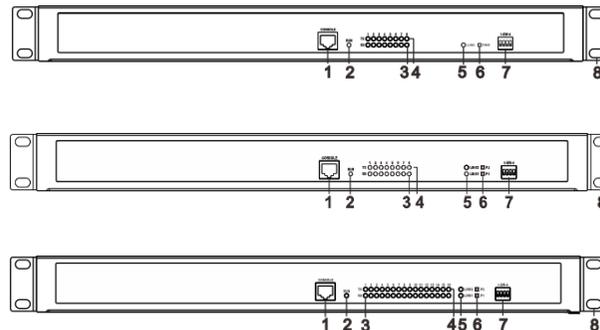
【Product Overview】

The series products are rackmount industrial serial device servers, including the following models:

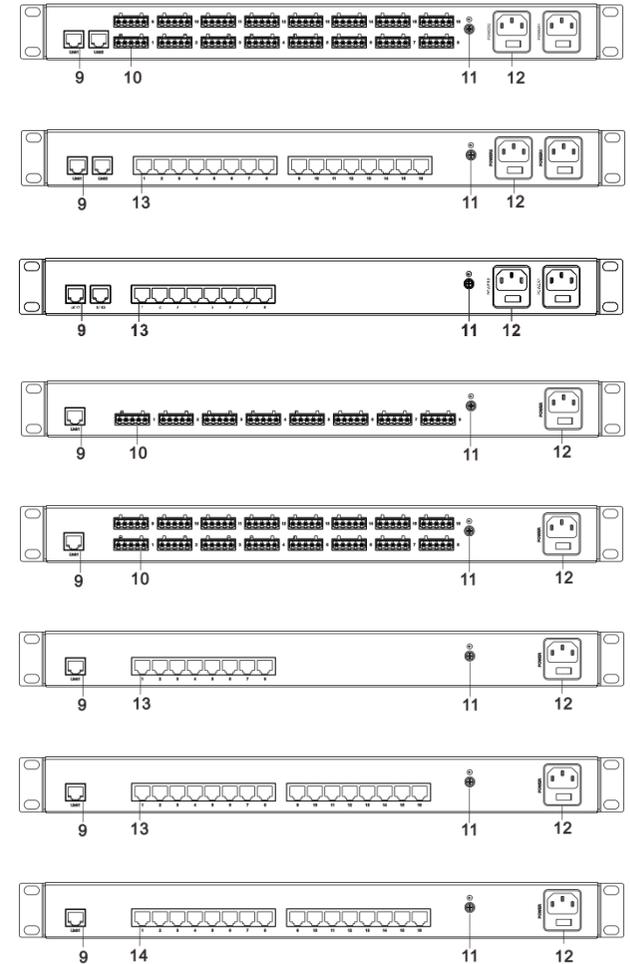
- Model I NP3008T-8DI(RS-485)-TB-P(85-265VAC):
8-way RS-485/422 + 1-way 10/100Base-T(X)
- Model II NP3016T-16DI(RS-485)-TB-P(85-265VAC):
16-way RS-485/422 + 1-way 10/100Base-T(X)
- Model III NP3116T-16DI(RS-485)-TB-2P(85-265VAC):
16-way RS-485/422 + 2-way 10/100Base-T(X)
- Model IV NP3008T-8D(3IN1)-RJ-P(85-265VAC):
8-way RS-232/485/422 + 1-way 10/100Base-T(X)
- Model V NP3108T-8D(3IN1)-RJ-2P(85-265VAC):
8-way RS-232/485/422 + 2-way 10/100Base-T(X)
- Model VI NP3016T-16D(3IN1)-RJ-P(85-265VAC):
16-way RS-232/485/422 + 1-way 10/100Base-T(X)
- Model VII NP3116T-16D(3IN1)-RJ-2P(85-265VAC):
16-way RS-232/485/422 + 2-way 10/100Base-T(X)
- Model VIII NP3008T-8D(RS-232)-RJ-P(85-265VAC):
8-way RS-232 + 1-way 10/100Base-T(X)
- Model IX NP3016T-16D(RS-232)-RJ-P(85-265VAC):
16-way RS-232 + 1-way 10/100Base-T(X)
- Model X NP3116T-16D(RS-232)-RJ-2P(85-265VAC):
16-way RS-232 + 2-way 10/100Base-T(X)

【Panel Design】

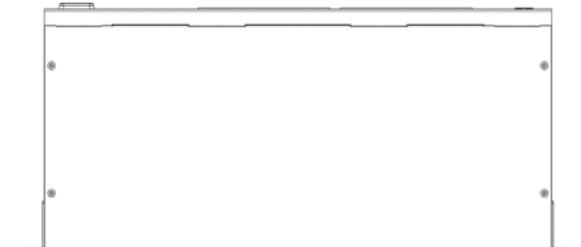
➤ Front view



➤ Rear view



➤ Top view

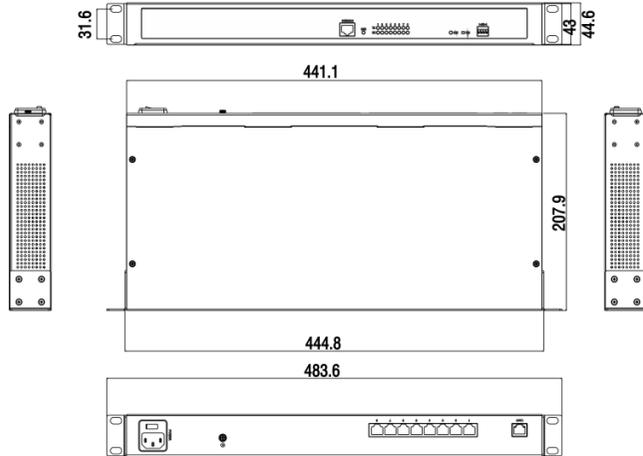


1. Console port
2. Running status indicator
3. Serial port receiving data indicators

4. Serial port transmission data indicators
5. Ethernet port Link/ACT indicators
6. Power indicator
7. DIP switch
8. Rackmount lug
9. 10/100Base-T(X) Ethernet port
10. RS-485/422 serial port
11. Grounding screw
12. Terminal block for power input
13. RS-232/485/422 serial port
14. RS-232 serial port

【Mounting Dimension】

Unit (mm)



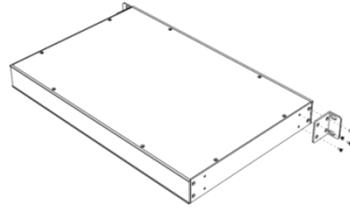
Note before mounting:

- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

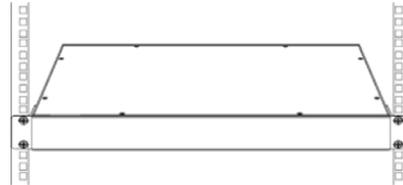
【Rack-mounted】

➤ Mounting the device

- Step 1 Select the device mounting location to ensure enough size.
- Step 2 Use 4 screws to mount the mounting lugs to the device as shown below.



- Step 3 Place the device on the rack surface plate; adopt 4 screws to mount the right and left mounting lugs on the rack.



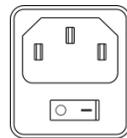
- Step 4 Check and confirm the product is mounted firmly on the rack, mounting ends.

➤ Device disassembling

- Step 1 Device powers off.
- Step 2 Unscrew the fixed mounting lug screw on the rack.
- Step 3 Shift out the device from rack, disassembling ends.

【Power Supply Connection】

➤ AC power supply



The rear panel of this serial server provides the AC power supply interface. The model I, model II, model IV, model VI, model VIII and model IX are AC 85 ~ 265V single power input, model III, model V and model VII and model X are AC 85 ~ 265V dual power input, it is recommended to use 220VAC power input.

【Console Port Connection】

The device provides 1 channel procedure debugging port based on RS-232 serial port. The interface adopts RJ45 port. The PIN definition as follows:

PIN	2	3	5
PIN definition	TXD	RXD	GND

【DIP Switch Setting】



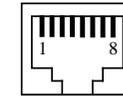
Provide 4-bit DIP switch for function setting, "ON" is enable valid terminal. DIP switch definition and operation method as follows:

DIP	Definition	Operation
1	Reserved	—
2	Restore factory setting	Set DIP switch to ON, power on again, and turn off DIP switch.
3	Reserved	—
4	Reserved	—

【Serial Port Connection】

➤ 3IN1 Interface

This series of model IV, model V, model VI and model VII provides 3IN1 serial port, supports RS232, RS485 and RS422 at the same time, interface type is RJ45, the definition of the pin as shown

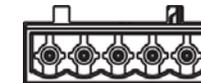


in the follow table:

PIN	1	2	3	4	5	6	7	8
RS-232	DSR	RTS	GND	TXD	RXD	DCD	CTS	DTR
RS-485	—	—	GND	—	—	D-	—	D+
RS-422	—	R-	GND	R+	—	T-	—	T+

➤ RS-485/422 Interface

This series of model I, model II, model III provides a serial interface of 5.08mm 5-bit industrial terminal block. The pin definitions as shown in the follow table:



PIN	1	2	3	4	5
RS-485	D+	D-	GND	—	—
RS-422	T+	T-	GND	R+	R-

➤ RS-232 Interface

This series of model VIII, model IX, model X support RS-232, interface type is RJ45, the pin definition as shown in the follow table:

PIN	1	2	3	4	5	6	7	8
PIN definition	DSR	RTS	GND	TXD	RXD	DCD	CTS	DTR

【Checking LED Indicator】

The device provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the function of each LED is described in the table as below:

LED	State	Description
P(1-2)	ON	Power supply is connected and running normally
	OFF	Power supply is disconnected or running abnormally
RUN	Flashing	The system is running normally
	OFF	The system is not running or running abnormally
	ON	The system is running abnormally
LINK (1-2)	ON	LAN port has established an active network connection
	Flashing	LAN port is in a network activity state
	OFF	LAN port hasn't established an active network connection
TX (Port1-8/16)	OFF	No data or abnormal data is being transmitted through serial port
	Flashing	Serial port is transmitting data
RX (Port1-8/16)	OFF	No data or abnormal data is being received through serial port
	Flashing	Serial port is receiving data

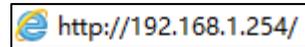
【Logging in to WEB Interface】

➤ Model I, Model II, Model IV, Model VI, Model VIII ,Model IX

This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

Step 1 Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed.

Step 2 Enter device's IP address in the address bar of the computer browser.



Step 3 Enter device's username and password in the login window as shown below.



Step 4 Click "OK" button to login to the WEB interface of the device.



Note:

- The default IP address of the device is "192.168.1.254".
- The default username and password of the device is "admin".

- If the username or password is lost, user can restore it to factory settings via device DIP switch or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

➤ Model III, Model V, Model VII, Model X

This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

Step 1 Configure the IP addresses of computer and the device to the same network segment(The network segment of Network Port 1 is 1, and the network segment of network port 2 is 8), and the network between them can be mutually accessed.

Step 2 Enter device's IP address in the address bar of the computer browser.

Port1:

Port 2:

Step 3 Enter device's username and password in the login window as shown below.



Step 4 Click “OK” button to login to the WEB interface of the device.



Note:

- The default IP address of the device Network port 1 is “192.168.1.254”, the default IP address of the device Network port 2 is “192.168.8.254”,
- The default username and password of the device is “admin”.
- If the username or password is lost, user can restore it to factory settings via device DIP switch or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

【Specification】

Panel	
100M copper port	10/100 Base-T(X) self-adaption RJ45 port
Serial port	RS-232/485/422 3IN1 RJ45 interface or RS-485/422 terminal block or RS-232

	RJ45 interface
Console port	RJ45
Indicator	Power indicator, Running status indicator, Network Link/Act indicator, Serial port transmission/receiving state indicator
Power supply	
Input power supply	85~265VAC
Consumption	
No-load consumption	≤3.40W @220VAC
Full-load consumption	≤5.20W @220VAC
Working environment	
Working temperature	-40℃~75℃
Storage temperature	-40℃~85℃
Working humidity	5%~95% (no condensation)
Physical Characteristics	
Protection grade	IP30
Size (LxWxH)	441.6mmx44.6mmx207.9mm
Weight	≤2620g
Mounting	Rack Mounting