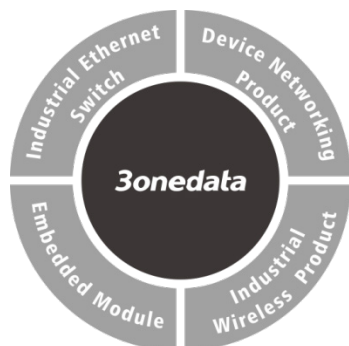


NP3XXXT Series Serial Device Server Quick Installation Manual



3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【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 manual |
| 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.

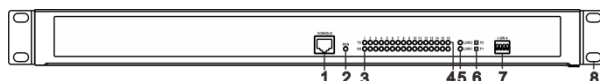
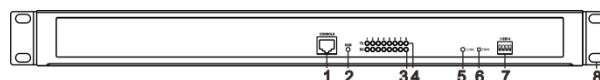
【Product Overview】

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

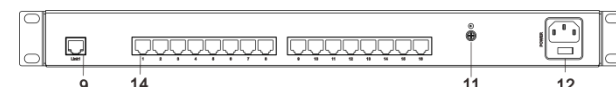
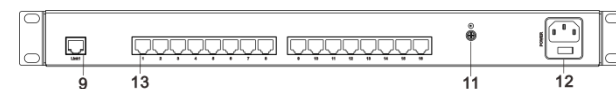
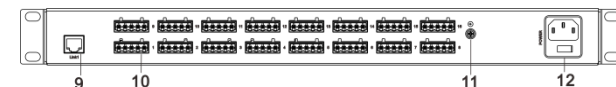
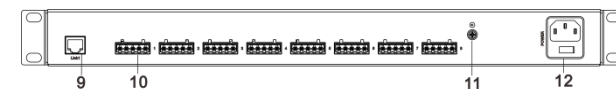
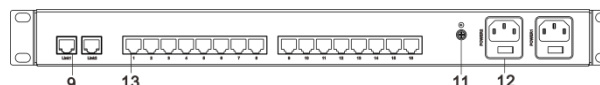
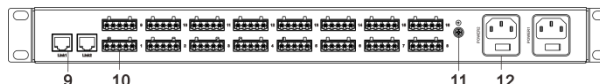
- Model I. NP3008T-8DI(RS-485)-TB-P(85-265VAC):
8-way RS-485/422 + 1-way 10/100Base-T(X)
- Model II. NP3016T-16DI(RS-485)-TB-P(85-265VAC):
16-way RS-485/422 + 1-way 10/100Base-T(X)
- Model III. NP3116T-16DI(RS-485)-TB-2P(85-265VAC):
16-way RS-485/422 + 2-way 10/100Base-T(X)
- Model IV. NP3008T-8D(3IN1)-RJ-P(85-265VAC):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

【Panel Design】

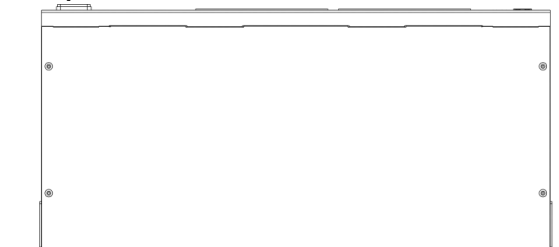
➤ Front view



➤ Rear view



➤ Top view

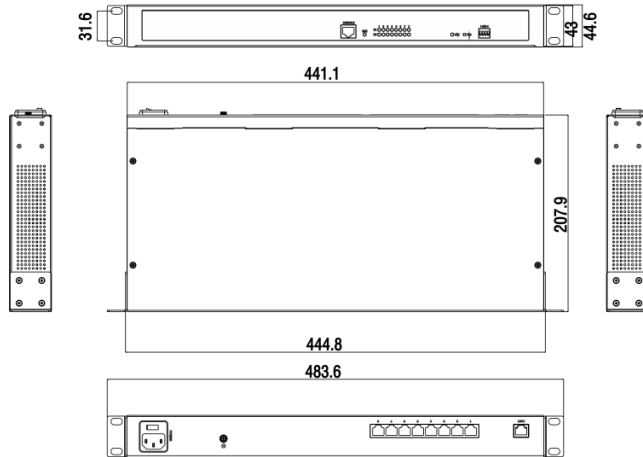


1. Console port
2. Running status indicator
3. Serial port receiving data indicators
4. Serial port transmission data indicators
5. Ethernet port Link/ACT indicators
6. Power indicator
7. DIP switch
8. Rackmount lug
9. 10/100Base-T(X) Ethernet port
10. RS-485/422 serial port
11. Grounding screw
12. Terminal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

14. RS-232 serial port

【Mounting Dimension】

Unit (mm)



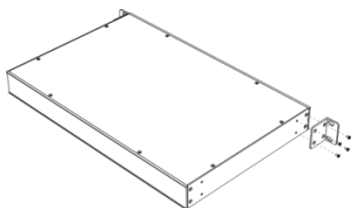
Note before mounting:

- 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.

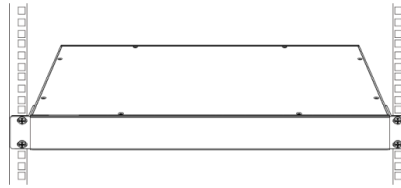
【Rack-mounted】

➤ 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.



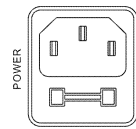
- Step 4 Check and confirm the product is mounted firmly on the rack, mounting ends.

➤ 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 V, model VII and model VIII are AC 85 ~ 265V single power input, model III, model VI and model IX 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】

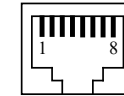


Provide 4-bit DIP switch for function setting, "ON" is enable valid terminal. DIP switch definition and operation method as follows:

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】

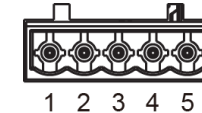
➤ 3IN1 Interface



This series of model IV, model V, model VI 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 VII, model VIII, model IX 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

【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 (L×W×H)	441.6mm×44.6mm×207.9mm
Weight	≤2620g
Mounting	Rack Mounting