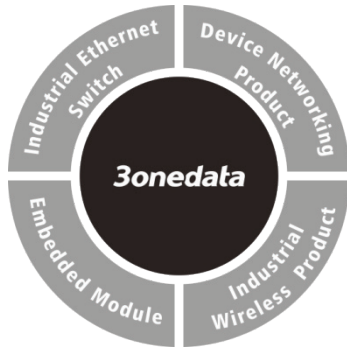


NP3XXT Series Serial Device Server Quick Installation Manual



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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 manual |
| 3. Wall mount kit | 4. Straight-through cable |
| 5. Power adapter | 6. Warranty card |
| 7. CD | 8. Qualify certificate |
| 9. Two pairs of rubber shock absorbers pad | 10. RJ45 (3IN1 serial port) to DB9-Male conversion line |

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

【Product Overview】

The product is managed industrial serial device server.

Module as follow:

Model I. NP304T-4D(3IN1)-RJ45:

4-Port RS-232/485/422 + 1-port 10/100Base-T(X)

Model II. NP314T-4D(3IN1)-RJ45:

4-Port RS-232/485/422 + 2-port 10/100Base-T(X)

Model III. NP308T-8D(3IN1)-RJ45:

8-Port RS-232/485/422 + 1-port 10/100Base-T(X)

Model IV. NP318T-8D(3IN1)-RJ45:

8-Port RS-232/485/422 + 2-port 10/100Base-T(X)

Model V. NP304T-4DI (RS485):

4-Port RS-485/422 + 1-port 10/100Base-T(X)

Model VI. NP314T-4DI (RS485):

4-Port RS-485/422 + 2-port 10/100Base-T(X)

Model VII. NP308T-8DI (RS-485):

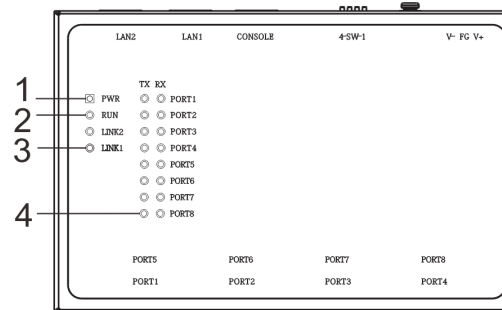
8-Port RS-485/422 + 1-port 10/100Base-T(X)

Model VIII. NP318T-8DI (RS-485):

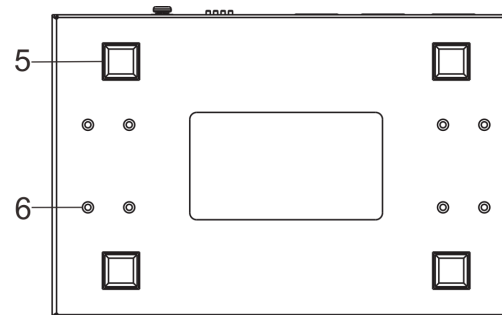
8-Port RS-485/422 + 2-port 10/100Base-T(X)

【Panel Design】

➤ Top view

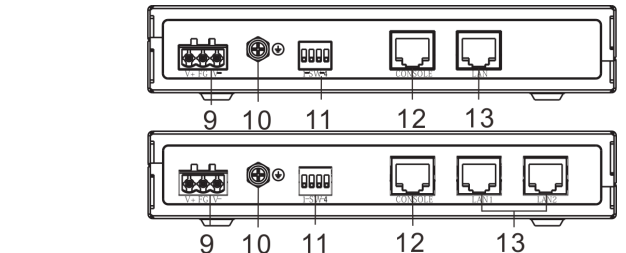


➤ Bottom view

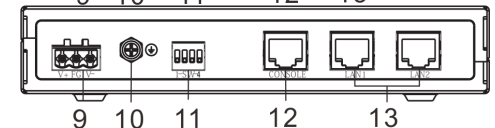
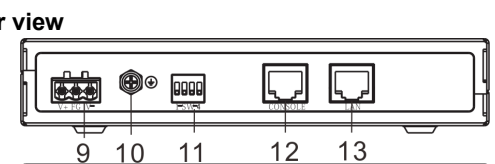
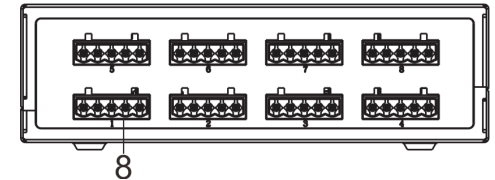
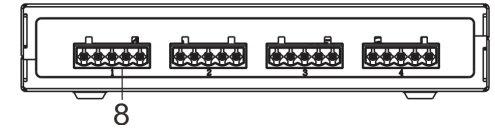
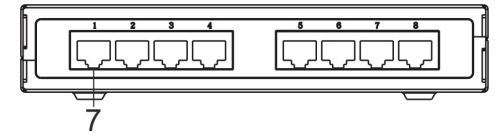
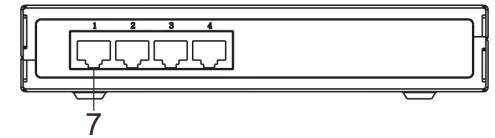


➤ Front view

➤ Rear view



1. Power indicator
2. Running status indicator
3. Ethernet port Link/ACT indicators
4. Serial port transmission and receiving data indicators
5. Rubber shock absorber pad
6. Screw holes for Wall Mounting Kit
7. RS-232/485/422 serial ports
8. RS-485/422 serial ports
9. Power input terminal block
10. Grounding screw
11. DIP switch
12. Console port

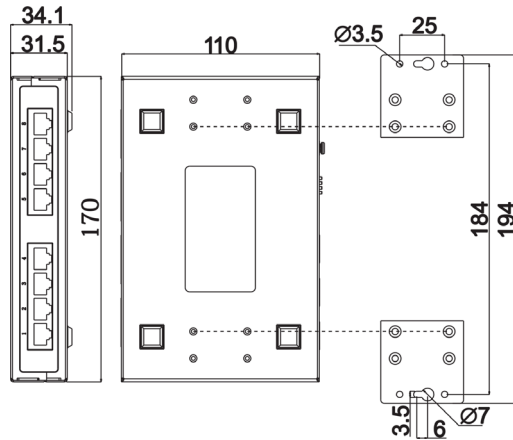


13. 10/100Base-T(X) Ethernet ports

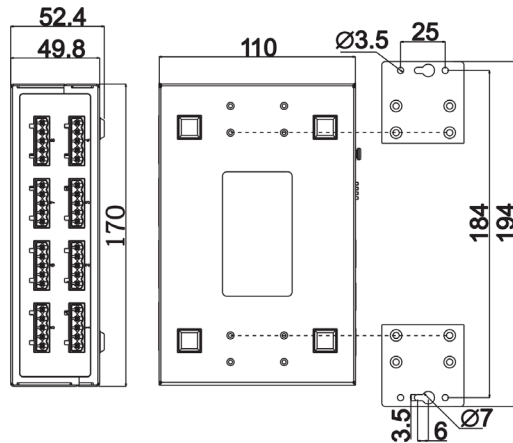
[Mounting Dimension]

Unit: mm

➤ **Model I ~ Model VI**



➤ **Model VII, Model VIII**



Note Before Mounting:

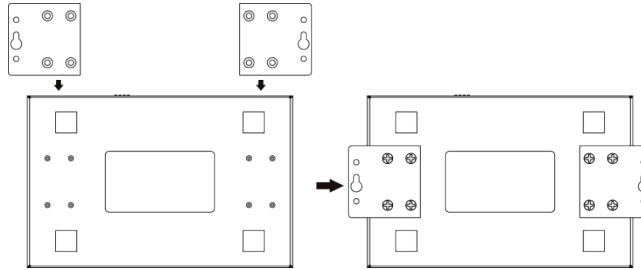
- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.

- The device surface temperature is high after running, please don't directly contact to avoid scalding.

[Wall Mounting]

➤ **Mounting the Device**

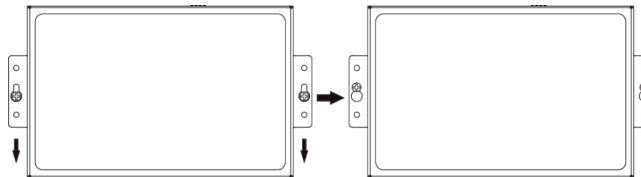
Step 1 Adopt M3 screw to install the left/right mounting board on the device backboard.



Step 2 On the wall of device mounting, place the device on the wall for reference or reference the mounting dimension to mark the four screws position.

Step 3 Nail two M4 screws on the wall and keep 2mm interspace reserved.

Step 4 Hang the device on two screws and slide downward, then tighten the screw to enhance stability, mounting ends.

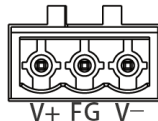


➤ **Device Disassembling**

Step 1 Device power off.
 Step 2 Unscrew the screw on the wall about 2mm.
 Step 3 Lift the device upward slightly, take out the device, disassembling ends.

[Power Supply Connection]

➤ **DC power supply**



The serial device server provides 3 industrial terminal blocks, in which V+ and V- are DC input and FG is ground input. The power

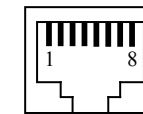
supply has nonpolarity and anti-reverse functions, Power supply range: 12~48VDC.



Note:

- Power ON operation: first connect power line to the connection terminal of device power supply, then power on.
- Power OFF operation: first unpin the power plug, then remove the power line, please note the operation order above.

[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



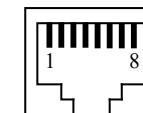
[DIP Switch Setting]

Provide 4-bits DIP switch for function setting, where "ON" is enable valid terminal. Please power off and power on after changing the status of DIP switch. DIP switch definition as follow:

1. Reserved
2. Restore factory setting
3. Reserved
4. Reserved

[Serial Port Connection]

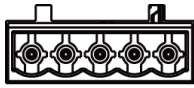
➤ **RS-232/485/422 Port (3IN1)**



Model I, model II, model III, and model IV provide RS-232/485/422 port(3IN1), serial device server adopts RJ45 connector. The PIN definition as follows.

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 Port**



1 2 3 4 5

Model V, model VI, model VII, and model VIII provide RS-485/422 port, Serial device server adopts 5-pin 5.08mm pitch terminal block. The PIN definition as follows.

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

【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	Indicate	Description
PWR	ON	The power connection is operating normally.
	OFF	The power is not connected or is not working properly.
RUN	ON	The system is not working properly.
	Flashing	The system is running normally.
	OFF	The system is not running or running abnormally.
LINK (1~2)	ON	The Ethernet interface has established an active network connection.
	Flashing	The Ethernet interface is in a network activity state.
	OFF	The Ethernet interface does not establish an active network connection.
RX Port(1~4/8)	OFF	No data or abnormal data is being received through serial port.
	Flashing	Serial port is receiving data.
TX Port(1~4/8)	OFF	No data or abnormal data is being transmitted through serial port.
	Flashing	Serial port is transmitting data.

【Specification】

Panel	
10/100Base-T(X)	10/100Base-T(X) self-adapting RJ45 port
Serial Port	RS-232/485/422 (3IN1) RJ45 interface or RS-485/422 terminal block
Console port	RJ45
Indicator	Power indicator, Running status indicator, Ethernet port Link/Act indicator, Serial port transmission and receiving data indicator
Power supply	
Input power supply	12~48VDC
Access terminal	3-pin terminal block
Consumption	
NP304T-4D(3IN1)-RJ45	No-load: 2.16W@12VDC
NP314T-4D(3IN1)-RJ45	Full-load: 3.00W@12VDC
NP308T-8D(3IN1)-RJ45	No-load: 1.8W@12VDC
NP318T-8D(3IN1)-RJ45	Full-load: 3.9W@12VDC
NP304T-4DI(RS-485)	No-load: 2.94W@12VDC
NP314T-4DI(RS-485)	Full-load: 2.94W@12VDC
NP308T-8DI(RS-485)	No-load: 3.16W@12VDC
NP318T-8DI(RS-485)	Full-load: 3.72W@12VDC
Working environment	
NP304T-4D(3IN1)-RJ45	Working temperature: -40℃~75℃
NP314T-4D(3IN1)-RJ45	Working temperature: -40℃~75℃
NP308T-8D(3IN1)-RJ45	Storage temperature: -40℃~85℃
NP318T-8D(3IN1)-RJ45	Storage temperature: -40℃~85℃
NP304T-4DI(RS-485)	Working temperature: -40℃~75℃
NP314T-4DI(RS-485)	Storage temperature: -40℃~75℃

NP308T-8DI(RS-485)	Working temperature: -40℃~70℃
NP318T-8DI(RS-485)	Working temperature: -40℃~70℃
Working humidity	5%~95% (no condensation)
Physical Characteristics	
Protection grade	IP30
Size (L×W×H)	170mm×110mm×31.50mm/ 170mm×110mm×49.80mm
Weight	580g
Mounting	Wall Mounting