3onedata NP301 Serial Device Server Instruction Manual

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Contents

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 × 1
2. Power adapter × 1
3. Straight-through cable × 1
4. 5-pin terminal block
5. 3-pin terminal block
6. Qualify certificate × 1
7. Warranty card × 1

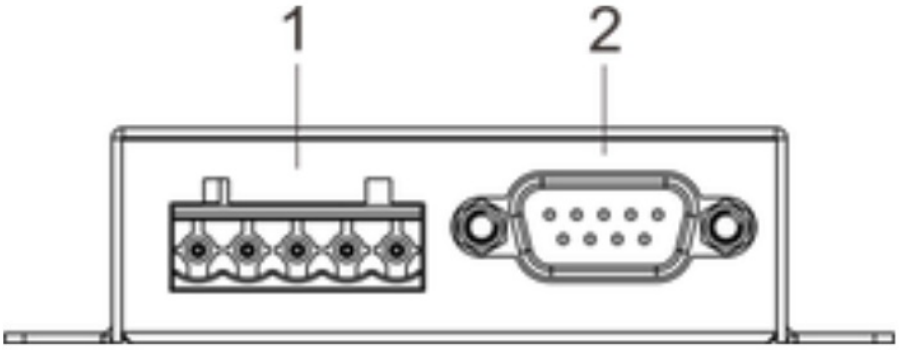
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

Product Overview

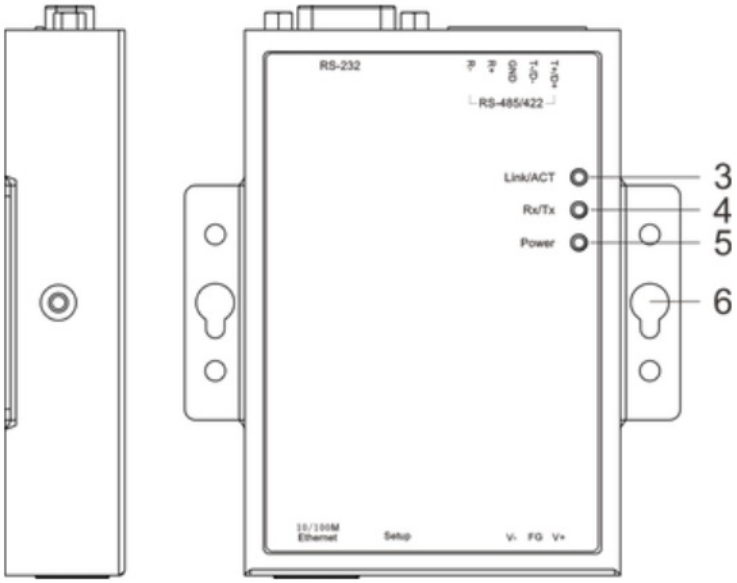
This product is a serial device server. Model as follow: NP301 (Single Ethernet, 1-port RS-232 or RS-485/422)

Panel Design

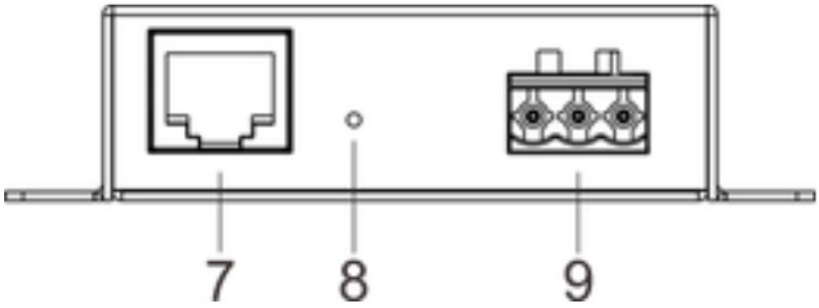
Top view



Side view and front view



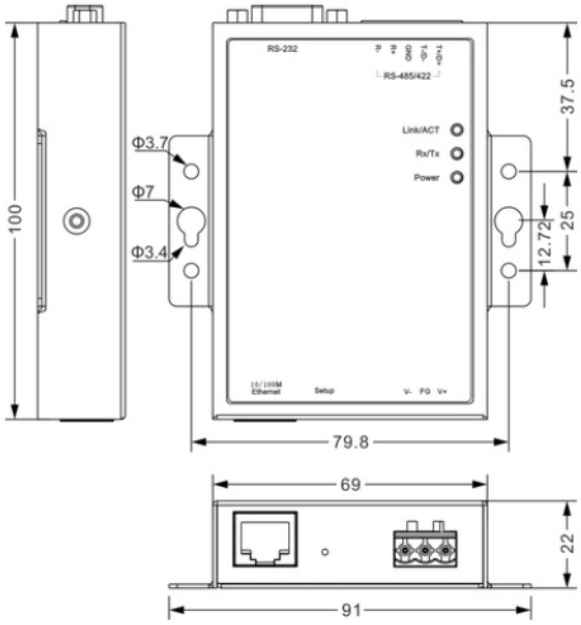
Bottom view



1. RS-485/422 serial port
2. RS-232 serial port
3. Ethernet port link/act indicator
4. Serial port transmission or receive data indicator
5. Power supply status indicator
6. Wall mounting kit
7. 10/100Base-T(X) copper port
8. Restore factory settings button
9. Terminal block for power input

Mounting Dimension

Unit: mm



⚠ Note Before Mounting

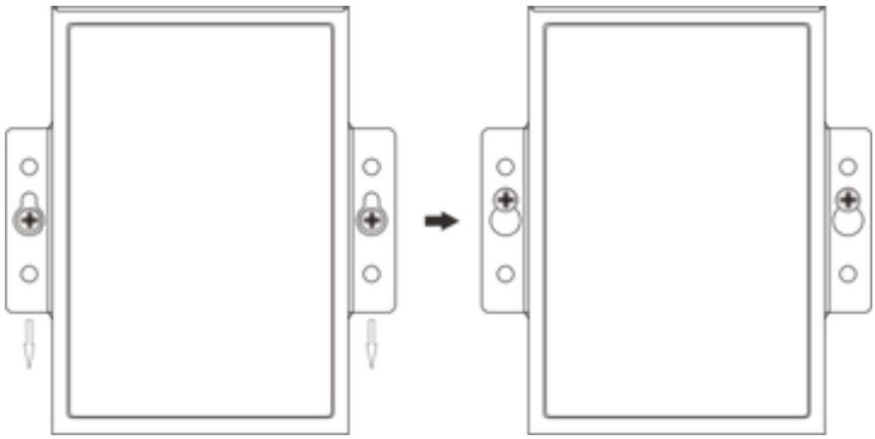
- Don’t place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature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

Wall Mounting

Mounting the Device

Step 1
On the wall of device mounting, place the device on the wall for reference or reference the mounting dimension to mark two screw position.
Step 2
Nail two M4 screws on the wall and keep 2mm interspace reserved.
Step 3
Hang the device on two screws and slide.

downward, then tighten the screw to enhance stability, mounting ends.

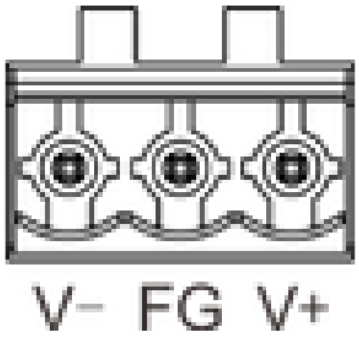


Device Disassembling

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

Power Supply Connection

DC power supply

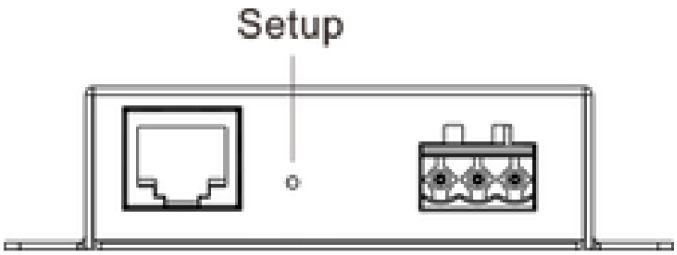


This device provides 3-pin power supply input terminal blocks (V-, FG, V+). The power supply support anti-reverse protection.
Power supply range: 9 48VDC

⚠ 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.

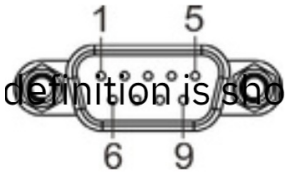
Restore Default Settings



Setup is restoring default settings button. Restoring default settings steps as follows: Press and hold the setup button, disconnect the power supply and then give the device to power up, wait for about 3~4 seconds to restore the factory settings

Serial Port Connection

This device provides 1-port RS-232 or RS-485/422 serial port optional.
RS-232 serial port

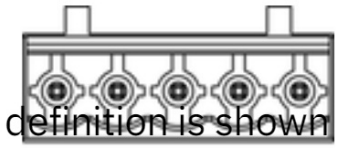


definition is sho

RS-232 adopt DB9-Male connecter, the pin definition is shown in the follow table:

PIN	1	2	3	4	5	6	7	9	9
RS-232	RXD TXD DTR GND DSR RTS CTS –								

RS-485/422 serial port



definition is shown

RS-485/422 adopt 5-pin 5.08mm pitch industrial terminal blocks. The pin definition is shown in the follow table:

PIN 1 2 3 4 5

RS-485 D+ D- GND – –
RS-422 T+ T- GND R+ R

Checking LED Indicator

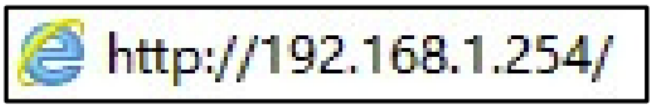
The device provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting; the function of each LED is described in the table as below:

LED	Indicate	Description
ON normally	PWR	The power connection is operating
OFF	working properly	The power is not connected or is not
ON active	network connection	The Ethernet interface has establis hed an
LINK Flashing	activity state.	The Ethernet interface is in a netwo rk
OFF		The Ethernet interface does not est ablish
OFF	Rx/Tx	an active network connection. No d ata or abnormal data is being

	Flashing	Serial port is receiving or transmittin g data

Logging in to WEB Interface

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.
Ste**p 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.

Specification

Panel	
Fast Ethernet port	10/100Base-T(X) self-adaptation RJ45 port, full duplex or half duplex self-adaptation
RS-232 serial port	DB9 male
RS-485/422 serial port	5-pin 5.08mm pitchterminal block
Indicator	Power indicator, Ethernet port Link/Act indicator,Serial port transmission and receiving data indicator
Power supply	
Input power supply	9-48VDC
Access terminal	3-pin 5.08mm pitchterminal block
Consumption	
No-load consumption	1.13W@9VDC
Full-toad consumption	1.48W@9VDC
Working environment	
Working	-40°C–.75°C
temperature Storage	-40°C—85°C
temperature	5%-95% (non-condensing)
Physical Characteristics Working humidity	
Protection grade	1P40 (mental shell)
Size (LxWxH)	100mmx69mmx22mm
Weight	240g
Mounting	Wall Mounting

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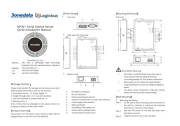
Make network communication more reliable

Documents / Resources

	3onedata NP301 Serial Device Server [pdf] Instruction Manual NP301 Serial Device Server, NP301, Serial Device Server, Device Server, Server

References

- 3onedata | Industrial Communication Solutions
- User Manual