

NP3XXXT Series

8/16-way Rackmount Serial Device Server

Features

- ◎ Support 8/16-way RS-232/RS-485/RS-422/3IN1 serial ports, thereinto RS-485/422 port support 2KVAC isolation protection
- ◎ Support 1/2-way 10/100Base-T(X) adaptive Ethernet interface optional, 2-way 10/100Base-T(X) Ethernet interface supports dual IP addresses and dual MAC addresses
- ◎ Support 1/2-way 85~265VAC alternating current input
- ◎ Support 300bps-115200bps wire-speed non-blocking communication
- ◎ Support TCP, UDP, ARP, ICMP, HTTP, DNS and DHCP protocols
- ◎ Support TCP Server, TCP Client, UDP Server, UDP Client, UDP Multicast, UDP Rang, Pair Slave, Pair Master, Real Com and many other working modes
- ◎ Support cross-gateway and cross-router communication
- ◎ Support polling mode
- ◎ Support delimiter matching communication
- ◎ Support FIFO function
- ◎ Support 32 IP address mapping table
- ◎ Compatible with a variety of virtual serial port management software
- ◎ Support standard TCP/IP SOCKET application program access
- ◎ Support Windows serial port driver mode
- ◎ Support virtual serial port driver access mode and automatic connection recovery function during network interruption
- ◎ Provide Windows configuration tool that is easy to use and can be used for batch installation
- ◎ Support WEB, serial port and other configuration forms
- ◎ Low-power design
- ◎ IP30 protection grade, metal shell, 1U rack-mounted installation
- ◎ Working temperature is -40~75℃



Introduction

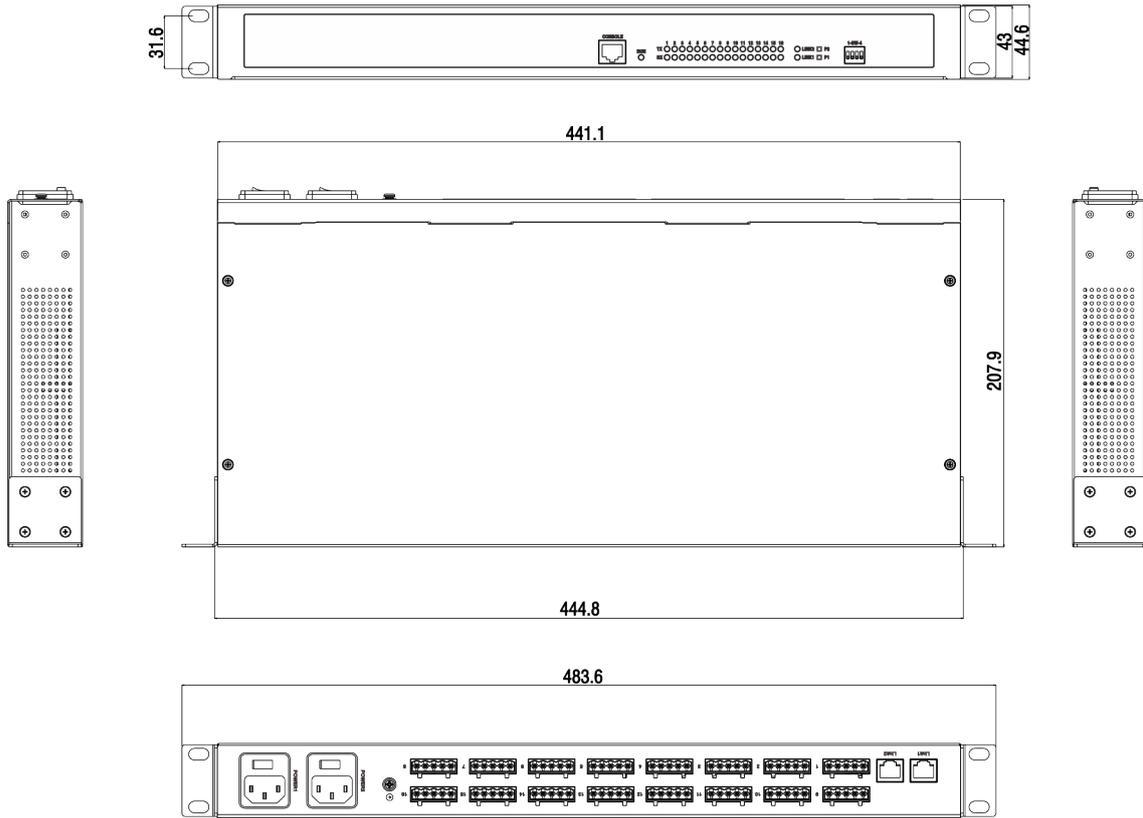
The NP3XXXT series are serial-to-Ethernet device servers that enable the serial device to have networking capabilities immediately. It provides 8/16-way RS-232/RS-485/RS-422/3IN1 serial port, supports 1/2-way 10/100Base-T(X) Ethernet interface, supports 1/2-way 85~265VAC power input, supports dual IP addresses and dual MAC addresses, which can be conveniently connected across two network segments. The serial device server can easily and centrally manage distributed serial devices and hosts through the network. It supports TCP, UDP, ARP, ICMP, HTTP, DNS and DHCP protocols, supports virtual serial port driver access and automatic connection recovery function during network interruption.

In addition, the series of devices provide a powerful Windows platform-based management configuration tool and WEB management interface, which can guide the user to manage the device step by step. All the devices can be configured through the network or serial port, support gateway, cross-routing communication, user-friendly IP address, server and client mode, packet size, and so on. The serial device can achieve immediate network connection via simple setting.

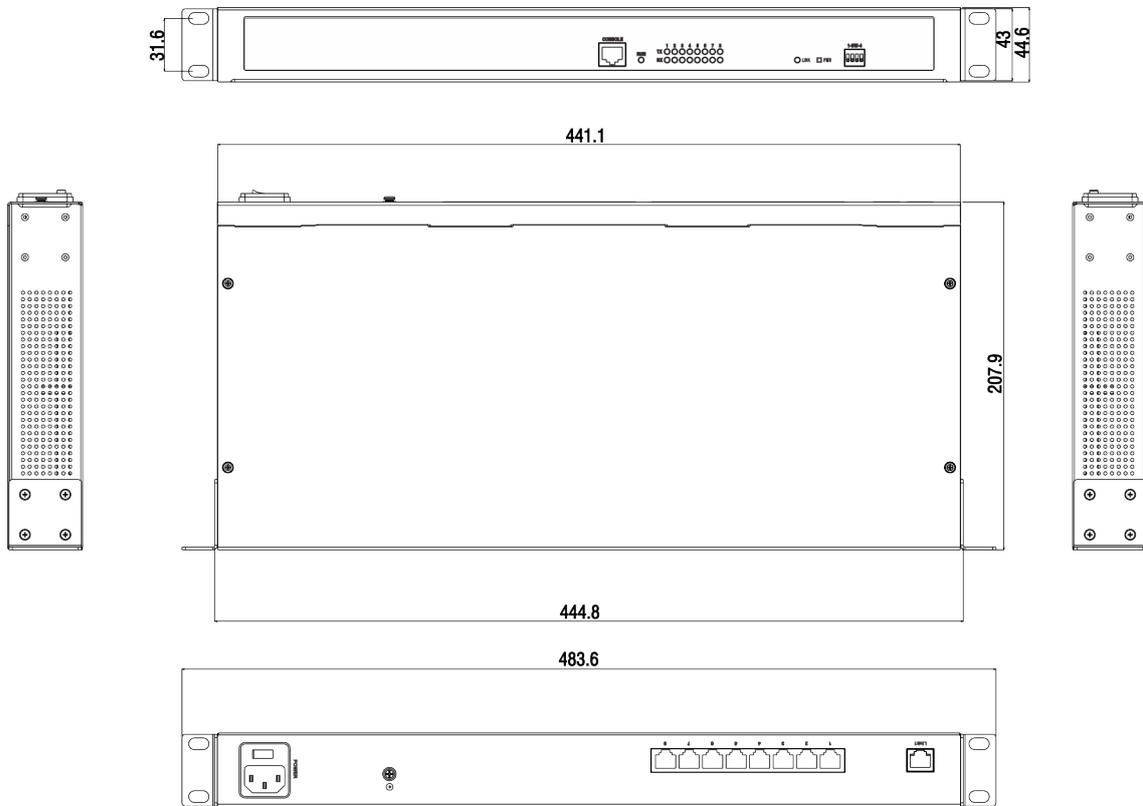
The exterior design supports 1U rack-mounted installation, which is convenient for engineering usage.

Dimension

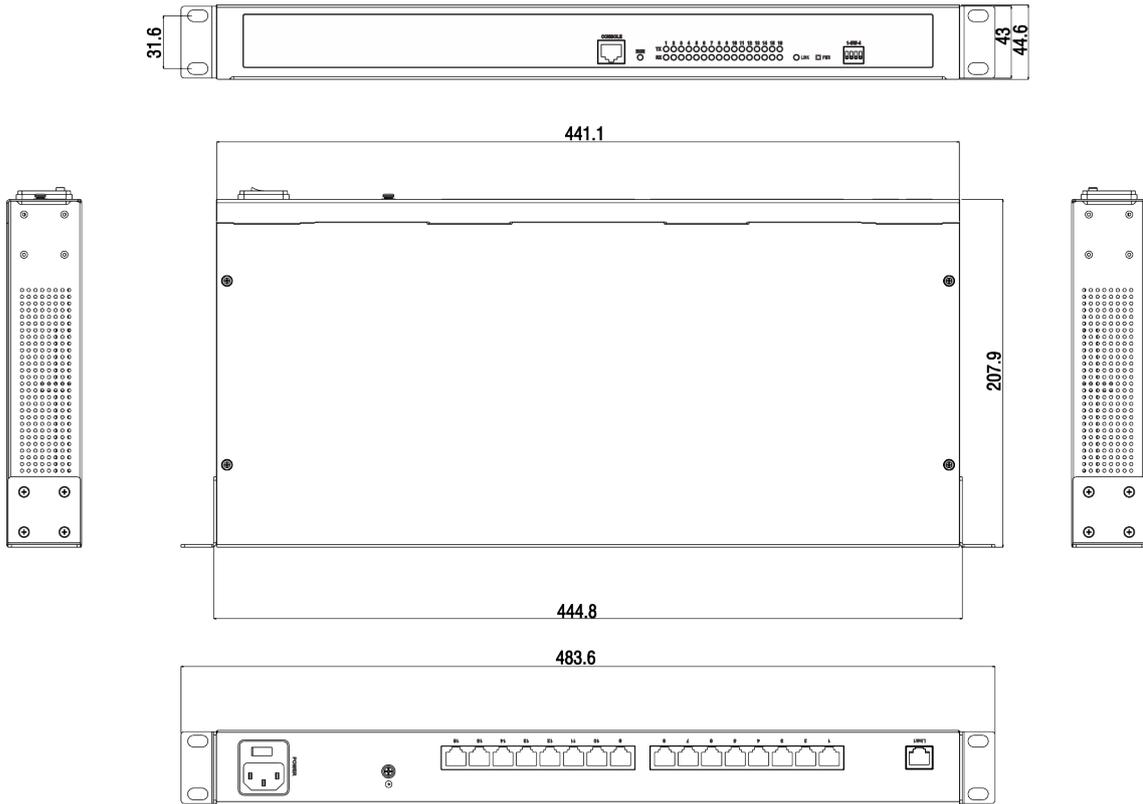
Unit (mm)



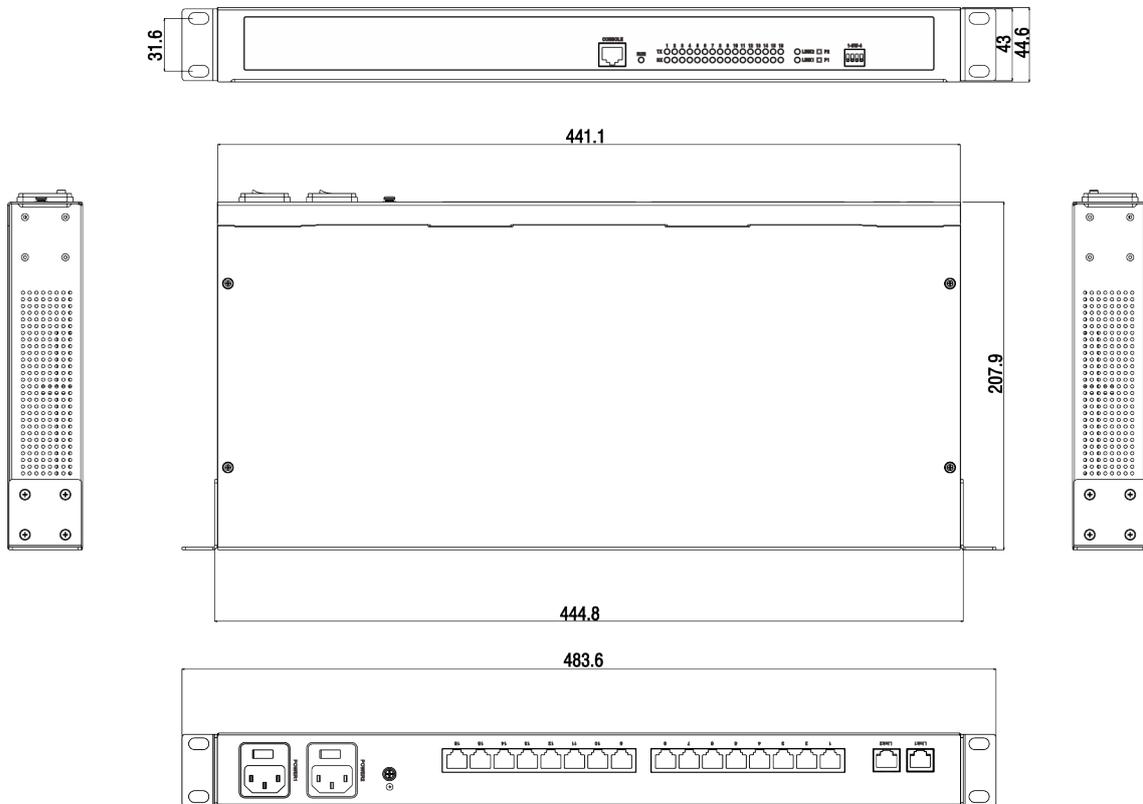
➤ NP3008T-8D(3IN1)-RJ-P(85-265VAC), NP3008T-8D(RS-232)-RJ-P(85-265VAC)



➤ NP3016T-16D(3IN1)-RJ-P(85-265VAC), NP3016T-16D(RS-232)-RJ-P(85-265VAC)



➤ NP3116T-16D(3IN1)-RJ-2P(85-265VAC), NP3116T-16D(RS-232)-RJ-2P(85-265VAC)



Specification

Ethernet Interface

Standard: 10Base-T, 100Base-TX

Protocol: Support TCP, UDP, ARP, ICMP and DHCP protocols

Signal: Rx+, Rx-, Tx+, Tx-

Speed: 10/100Mbps

Working way: Full-duplex and half duplex

Working mode: TCP Server, TCP Client, UDP Server, UDP Client, UDP Multicast, UDP Rang, Pair Slave, Pair master, Real Com and many other working modes

Interface form: RJ45

Serial Port

Serial port: RS-232/485/422, RS-485/422 or RS-232

RS-485 signal: D+(A), D-(B), GND

RS-422 signal: T+, T-, R+, R-, GND

RS-232 signal: DSR, RTS, GND, TXD, RXD, DCD, CTS, DTR

Parity bit: None, Even, Odd, Space, Mark

Data bit: 5bit, 6bit, 7bit, 8bit

Stop bit: 1bit, 1.5bit, 2bit

Baud rate: 300bps-115200bps

Direction control: RS-485 adopts data flow automatic control technology

Load capacity: RS-485/422 support 32 point polling environment (customizable 128 points)

RS-485/422 serial port electromagnetic isolation strength: 3KVDC/2KVrms

Interface

Ethernet port: 10Base-T/100Base-TX self-adaption RJ45

RS-232/485/422 serial port: RJ45

RS-485/422 serial port: 5-bit 5.08mm spacing industrial terminal block

RS-232 serial port: RJ45 interface

Transfer Distance

Ethernet twisted pair: 100m (Standard CAT5/CAT5e cable)

RS-232 transfer distance: 15m

RS-485/422 transfer distance: 1200m

LED Indicator

Power supply indicator: P1, P2

System run indicator: RUN

Ethernet Link/Act indicator: LINK

8/16-way serial port transmit data indicator:

TX1-TX16

8/16-way serial port receive data indicator:

RX1-RX16

Power Supply

Input voltage: 85~265VAC

No-load consumption: ≤3.40W@220VAC

Full-load consumption: ≤5.20W@220VAC

Mechanical Structure

Shell: IP30 protect grade, metal shell

Installation: 1U rack mounting

Weight ≤2620g

Size (W×H×D): 441.6mm×44.6mm×207.9mm

Working Environment

Working temperature: -40~75°C

Storage temperature: -40~85°C

Relative humidity: 5%~95 % (no condensation)

Industry Standard

EMI: FCC Part 15, CISPR (EN55022) class A

EMC:

IEC61000-4-2 (ESD), Level 4

- Contact: 8 kV

- Air: 15 kV

IEC61000-4-4(EFT), Level 4 (Power), 3(Signal)

- Power: 4 kV

- Signal: 1 kV

IEC61000-4-5 (SURGE), Level 4 (Power), 3 (Signal)

- Power: common mode 4 kV difference mode 2 kV

- Signal: common mode 2 kV difference mode 1 kV

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Warranty

Warranty period: 3 years

Certification

CE, FCC, RoHS, UL508 (Pending)

See the newest products certification information on 3onedata website

Ordering Information

Optional Model	Port				Power	
	RS-422/485 serial port	RS-232/485/422 serial port	RS-232 serial port	100M copper port	Power Quantity	Range Value
NP3008T-8DI(RS-485)-TB-P(85-265VAC)	8	—	—	1	1	85~265VAC
NP3016T-16DI(RS-485)-TB	16	—	—	1	1	

Optional Model	Port				Power	
-P(85-265VAC)						
NP3116T-16DI(RS-485)-TB -2P(85-265VAC)	16	—	—	2	2	
NP3008T-8D(3IN1)-RJ-P(8 5-265VAC)	—	8	—	1	1	
NP3016T-16D(3IN1)-RJ-P(85-265VAC)	—	16	—	1	1	
NP3116T-16D(3IN1)-RJ-2P (85-265VAC)	—	16	—	2	2	
NP3008T-8D(RS-232)-RJ- P(85-265VAC)	—	—	8	1	1	
NP3016T-16D(RS-232)-RJ- P(85-265VAC)	—	—	16	1	1	
NP3116T-16D(RS-232)-RJ -P(85-265VAC)	—	—	16	2	2	

Accessories Information

Product Type	Product Code	Description
Network management line (CONSOLE port)	205-0015	RJ45 to DB9 female (1.5m)
Serial port line (3IN1, RS232 serial port)	205-0035	RJ45 to DB9 female (2.0m)
Serial port line (3IN1, RS232 serial port)	205-0036	RJ45 to DB9 male (2.0m)
DB9 female to TB5 connector	4501010732	DB9 female to 5-pin terminal block