



NP3008T & NP3108 & NP3016 & NP3116 Series

Rack Mounting

8/16 RS-232/485/422 3IN1 Serial Server

- Support 8/16 RS-232/485/422 3IN1 serial port to 1/2 10/100Base-T(X) self-adaptive Ethernet interface
- Support two schemes, single or double network ports
- Support RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast and other operating modes
- Support 85~265VAC wide voltage input
- Support wide operating temperature range



Introduction

Products of NP3008T & NP3108 & NP3016 & NP3116 series are serial device servers that can make serial device be equipped with networking capability instantly and centrally manage the scattered serial devices and hosts via network. This series has 10 products to choose from, support 8/16 RS-232/485/422/3IN1 serial port to 1/2 100M Ethernet port, support single network port or dual network port two schemes, support optional 85~265VAC single power supply or dual power supply. It adopts rack mounting, which can meet the requirements of different application scenes.

Serial device server supports multiple network protocols, such as TCP, UDP, TELNET, ARP, ICMP, HTTP, DNS and DHCP protocol. It also possesses complete management functions, including Access Control, Rapid Configuration, Online Upgrading and so on. Each serial port supports 4 TCP or UDP session connections, and it also supports RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast operating modes and TELNET, WEB access modes. Furthermore, supplied management configuration tool based on Windows platform can guide the user to manage and configure the device, achieving immediate networking of serial device via simple settings. It can provide users with good experience with friendly design of network management system interface, simple and convenient operation.

DIP switch can achieve restore factory defaults of the device. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in PLC control and management, Building Automation System, Health Care Automation System, measuring instrument and environmental forces monitoring system.

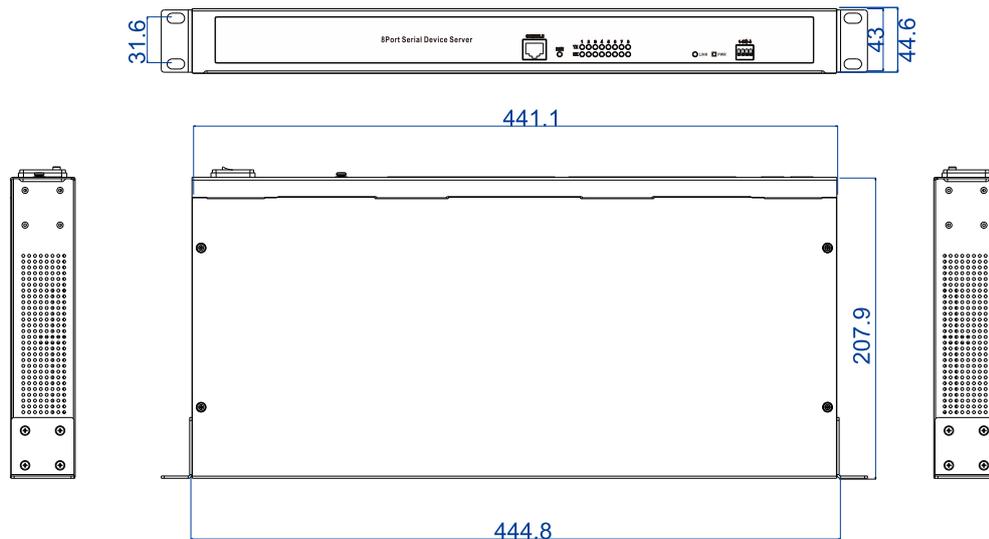
Features and Benefits

- ⊙ Support 10/100Base-T(X) self-adaptive Ethernet interface
- ⊙ Support 300bps-115200bps line speed and non-blocking communication
- ⊙ Support RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast and other operating modes
- ⊙ Support cross-gateway and cross-router communication
- ⊙ Support multiple hosts polling mode, which allows multiple hosts to access the same serial port
- ⊙ Support delimiter matching communication, achieving various demands for serial port packaging
- ⊙ Support FIFO, compatible with various old type terminal devices
- ⊙ Support IP address and MAC address filtering, which can achieve accurate access control easily
- ⊙ Support graded user management to implement humanized authority management

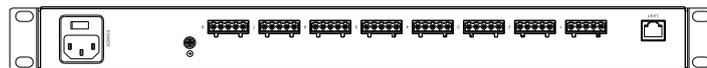
- Support serial port status and parameters monitoring, ensuring the communication status be clear at a glance
- Support RTS/CTS, DTR/DSR and XON/XOFF flow control
- Compatible with various virtual serial port management software
- Support virtual serial port drive access mode and automatic connection recovery after network interruption
- Flexible serial port data framing setting, which can satisfy user's various demands for data packets segmentation
- Support standard TCP/IP SOCKET application access
- TCP supports multi-connection, which allows maximum 4 users to monitor or manage the serial device simultaneously
- UDP supports single machine or multi-machine communication, which allows multiple users to monitor or manage the serial device simultaneously
- Support multiple configuration forms like Windows configuration tool, TELNET and WEB

Dimension

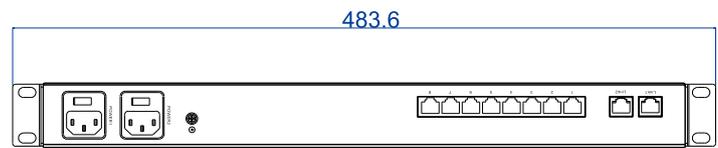
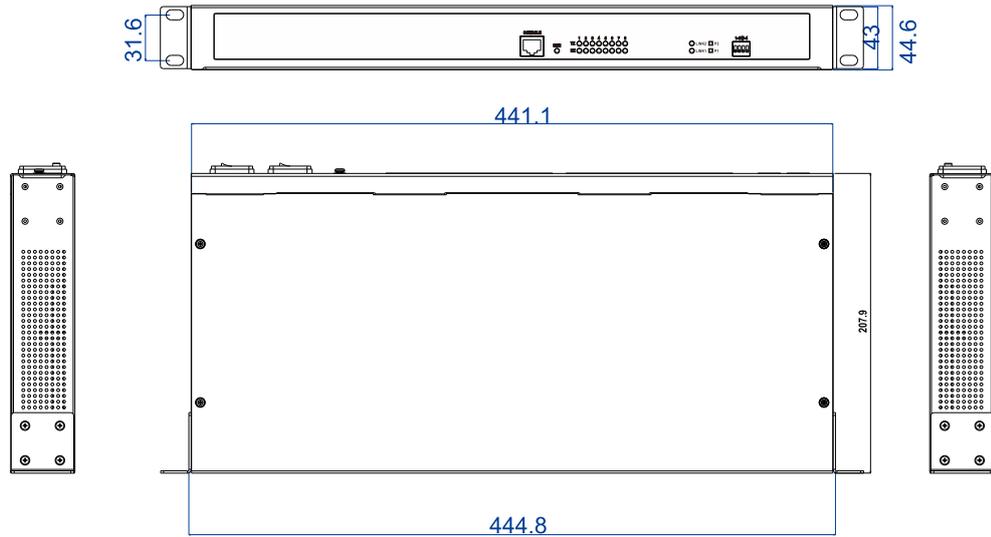
Unit:mm



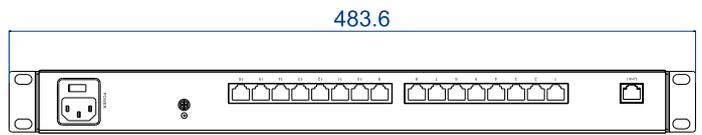
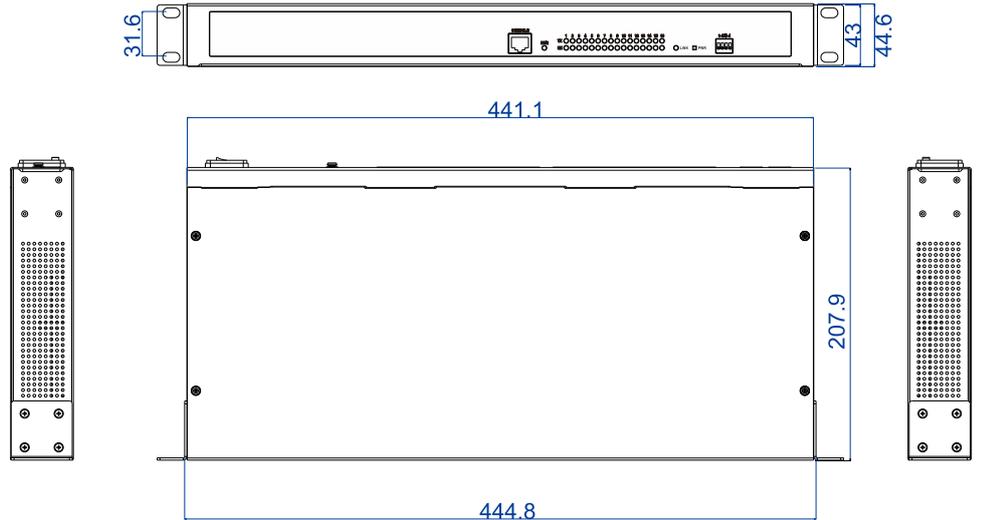
NP3008T-8D(RS-232)-RJ-P(85-265VAC) & NP3008T-8D(3IN1)-RJ-P(85-265VAC)



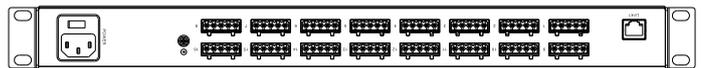
NP3008T-8DI(RS-485)-TB-P(85-265VAC)



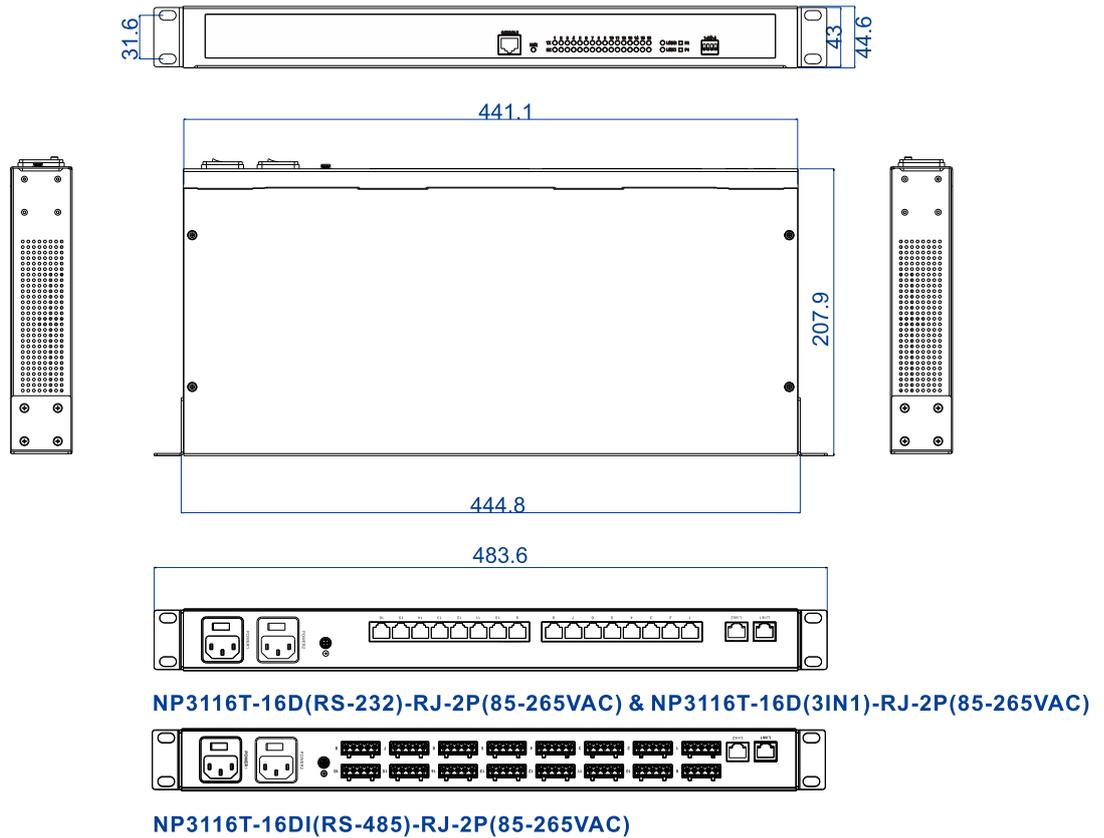
NP3108T-8D(3IN1)-RJ-2P(85-265VAC)



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



NP3016T-16DI(RS-485)-TB-P(85-265VAC)



Specification

<p>Ethernet</p>	<p>Standard: 10Base-T, 100Base-TX Protocol: TCP, UDP, ARP, HTTP, TELNET, ICMP, DHCP, DNS Rate: 10/100M Automatic Flow Control, MDI/MDI-X Autotuning Interface form: RJ45 Interface quantity: 1 or 2 Duplex mode: Self-adaptive Full/Half Duplex Mode Operating mode: 4 sessions, support RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang and UDP Multicast operating modes</p>
<p>Serial Port</p>	<p>Standard: EIA RS-232C, RS-485, RS-422 Quantity of serial port: 8/16 RS-232, RS-485/422 or 3IN1 serial port RS-232 signal: RXD, TXD, DTR, GND, DSR, RTS, CTS, DCD RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, GND, R+, R- Baud rate: 300-115200bps Data bit: 5bit, 6bit, 7bit, 8bit</p>

Parity bit: None, Even, Odd, Space, Mark
 Stop bit: 1bit, 2bit
 Interface form: RS-485/422 serial port with isolation, adopt 5-pin
 5.08mm pitch terminal blocks;
 RS-232, 3IN1 serial port, adopt RJ45;
 Flow control: RTS/CTS, DTR/DSR, XON/XOFF
 Direction control: RS-485 direction adopts Automatic Data Direction
 Control (ADDC)
 Load capacity: RS-485/422 end supports 32 points polling
 (customizable 128 points)
 Transmission distance: RS-232, 15m; RS-485/422, 1200m
 Pull high/low resistor for RS-485: 4.7kΩ
 Intensity of electromagnetic isolation: RS-485/422 serial port (terminal
 block), 1.2kVAC

Configuration Method	WEB configuration management, TELNET configuration, Windows configuration tool
Security	Classification of User Permissions, IP address filtering, MAC address filtering, WEB Console, TELNET Console
Indicator	Power supply indicator, Ethernet port indicator, serial port indicator, running indicator
Power Supply	Power supply: 85~265VAC Single power supply: NP3008T-8D(RS-232)-RJ-P(85-265VAC) NP3008T-8DI(RS-485)-TB-P(85-265VAC) NP3008T-8D(3IN1)-RJ-P(85-265VAC) NP3016T-16D(RS-232)-RJ-P(85-265VAC) NP3016T-16DI(RS-485)-TB-P(85-265VAC) NP3016T-16D(3IN1)-RJ-P(85-265VAC) Dual power supply: NP3108T-8D(3IN1)-RJ-2P(85-265VAC) NP3116T-16D(RS-232)-RJ-2P(85-265VAC) NP3116T-16DI(RS-485)-TB-2P(85-265VAC) NP3116T-16D(3IN1)-RJ-2P(85-265VAC)
Power Consumption	No-load: ≤3.40W@220VAC Full-load: ≤5.20W@220VAC
Working Environment	<ul style="list-style-type: none"> ● Operating temperature: -40~75℃ ● Storage temperature: -40~85℃ ● Relative humidity: 5%~95% (no condensation)
Physical Characteristic	Housing: IP30 protection, metal

Your Reliable Industrial Communication Expert

Installation: rack mounting
Dimension (W x H x D): 441.6mm×44.6mm×207.9mm
Weight: ≤2620g

IEC 61000-4-2 (ESD, electrostatic discharge), Level 3

- Air discharge: ±8kV
- Contact discharge: ±6kV

IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3

- Power supply: ±2kV
- Signal: ±2kV

Industrial Standard

IEC 61000-4-5 (Surge), Level 2

- Power supply: common mode±1kV, differential mode±1kV
- Signal: common mode ±1kV, differential mode ±1kV

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Certification

CE, FCC, RoHS

Warranty

3 years

Ordering Information

Available Models	100M Copper port	RS- 232	RS- 485/422	3IN1 (RS-232/485/422)	Power Supply
NP3008T-8D(RS-232)-R J-P(85-265VAC)	1	8	—	—	85~265VAC
NP3008T-8DI(RS-485)-T B-P(85-265VAC)	1	—	8	—	
NP3008T-8D(3IN1)-RJ-P (85-265VAC)	1	—	—	8	Dual power supply ranging 85~265VAC
NP3108T-8D(3IN1)-RJ-2 P(85-265VAC)	2	—	—	8	
NP3016T-16D(RS-232)- RJ-P(85-265VAC)	1	16	—	—	
NP3016T-16DI(RS-485)- TB-P(85-265VAC)	1	—	16	—	85~265VAC
NP3016T-16D(3IN1)-RJ- P(85-265VAC)	1	—	—	16	Dual power supply ranging 85~265VAC
NP3116T-16D(RS-232)- RJ-2P(85-265VAC)	2	16	—	—	
NP3116T-16DI(RS-485)- TB-2P(85-265VAC)	2	—	16	—	
NP3116T-16D(3IN1)-RJ- 2P(85-265VAC)	2	—	—	16	



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