



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.

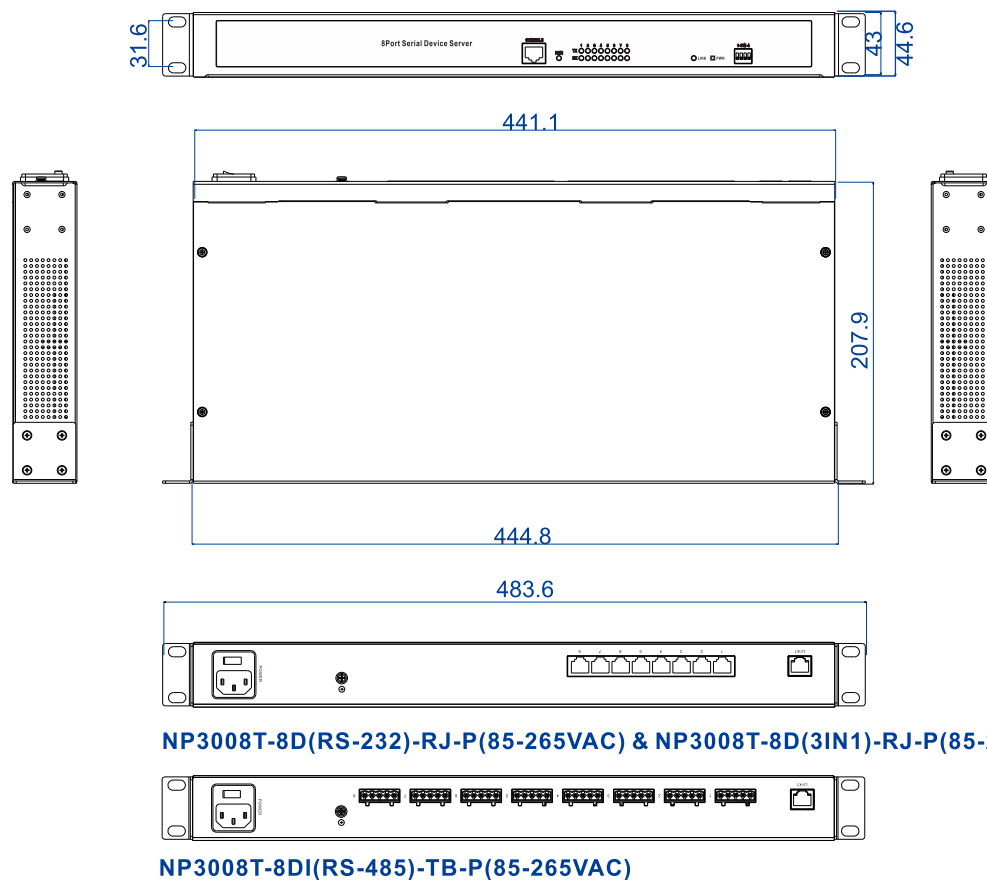
Features and Benefits

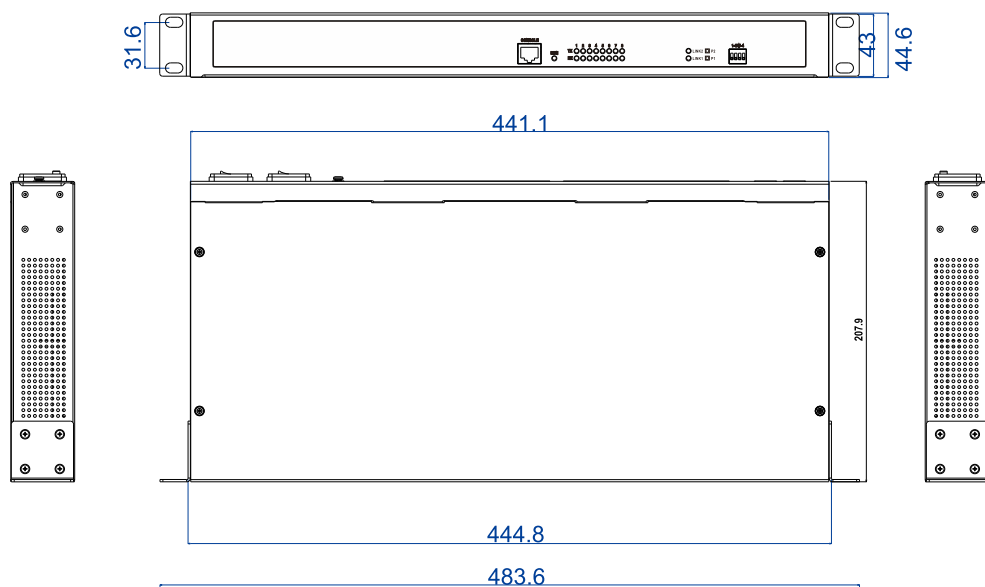
- ⦿ Support 10/100Base-T(X) self-adaptive Ethernet interface
- ⦿ Support 300bps-115200bps line speed and non-blocking communication
- ⦿ Support RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast and other operating modes
- ⦿ Support cross-gateway 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

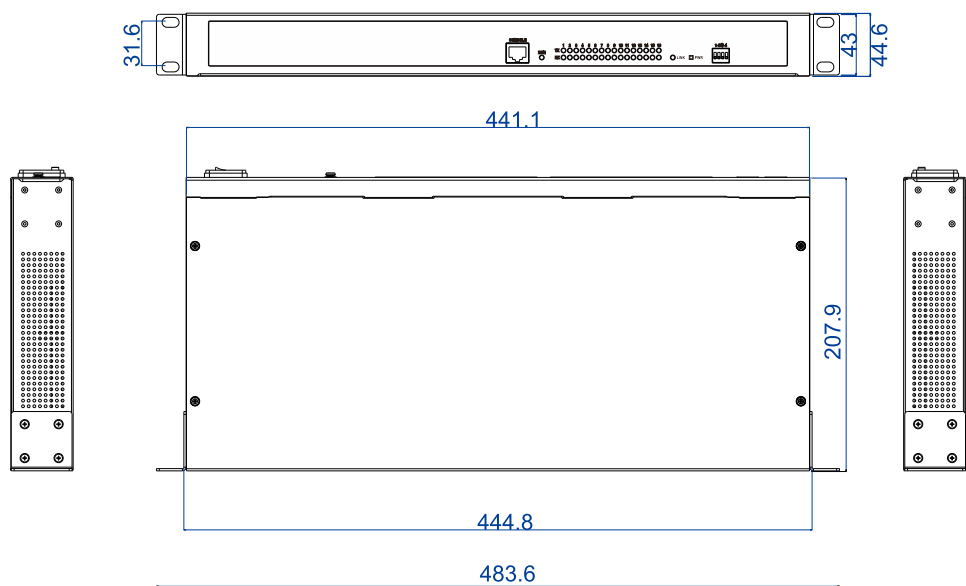
Dimension

Unit:mm

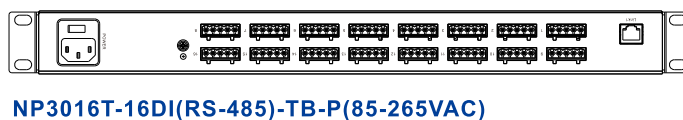




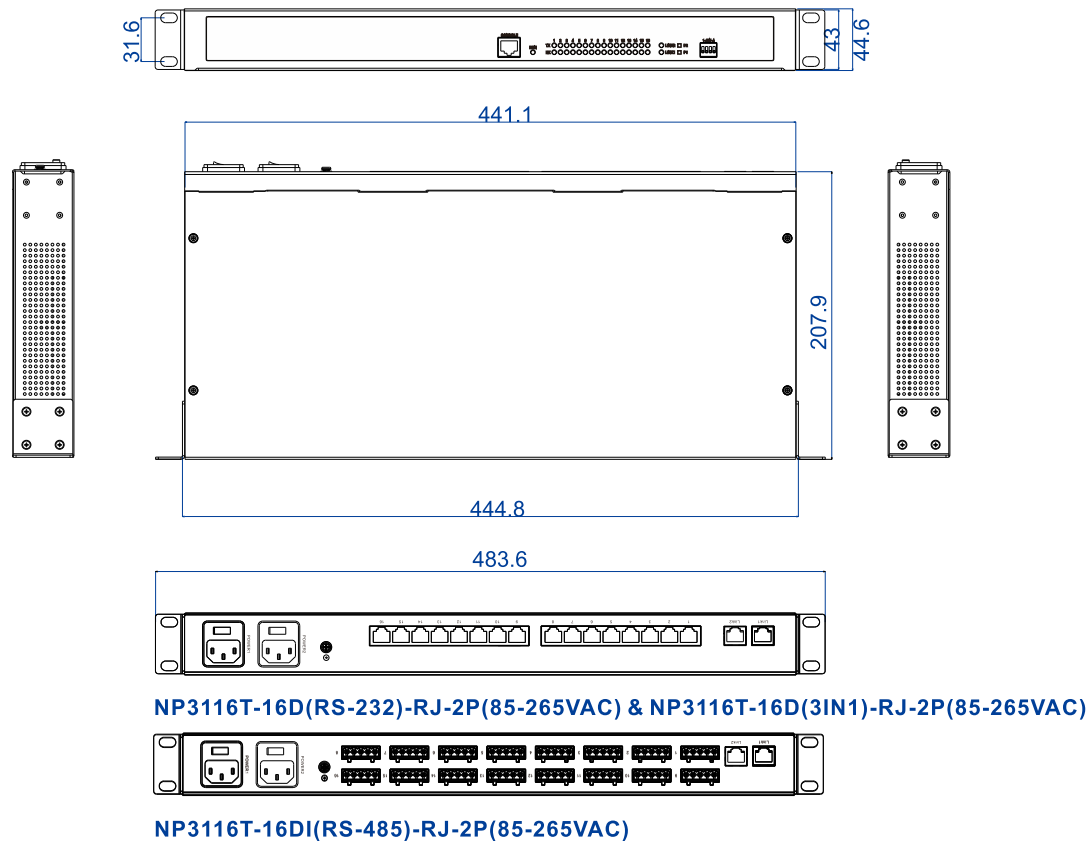
NP3108T-8D(3IN1)-RJ-2P(85-265VAC)



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



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



Specification

Ethernet	<p>Standard: 10Base-T, 100Base-TX</p> <p>Protocol: TCP, UDP, ARP, HTTP, TELNET, ICMP, DHCP, DNS</p> <p>Rate: 10/100M Automatic Flow Control, MDI/MDI-X Autotuning</p> <p>Interface form: RJ45</p> <p>Interface quantity: 1 or 2</p> <p>Duplex mode: Self-adaptive Full/Half Duplex Mode</p> <p>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>
Serial Port	<p>Standard: EIA RS-232C, RS-485, RS-422</p> <p>Quantity of serial port: 8/16 RS-232, RS-485/422 or 3IN1 serial port</p> <p>RS-232 signal: RXD, TXD, DTR, GND, DSR, RTS, CTS, DCD</p> <p>RS-485 signal: D+, D-, GND</p> <p>RS-422 signal: T+, T-, GND, R+, R-</p> <p>Baud rate: 300-115200bps</p> <p>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

	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 <ul style="list-style-type: none">Air discharge: ±8kVContact discharge: ±6kV
	IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3 <ul style="list-style-type: none">Power supply: ±2kVSignal: ±2kV
Industrial Standard	IEC 61000-4-5 (Surge), Level 2 <ul style="list-style-type: none">Power supply: common mode±1kV, differential mode±1kVSignal: 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	
NP3108T-8D(3IN1)-RJ-2 P(85-265VAC)	2	—	—	8	Dual power supply ranging 85~265VAC
NP3016T-16D(RS-232)- RJ-P(85-265VAC)	1	16	—	—	85~265VAC
NP3016T-16DI(RS-485)- TB-P(85-265VAC)	1	—	16	—	
NP3016T-16D(3IN1)-RJ- P(85-265VAC)	1	—	—	16	
NP3116T-16D(RS-232)- RJ-2P(85-265VAC)	2	16	—	—	Dual power supply ranging 85~265VAC
NP3116T-16DI(RS-485)- TB-2P(85-265VAC)	2	—	16	—	
NP3116T-16D(3IN1)-RJ- 2P(85-265VAC)	2	—	—	16	



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