3onedata
Reliable Connections



NP302T Series

Wall Mounting

2 RS-232 or RS-485/422 Serial Device Server

- Support 2 RS-232 or RS-485/422 serial ports to 1 10/100Base-T(X) self-adaptive Ethernet interface
- Support RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast and other operating modes
- Support 9~48VDC wide voltage input range
- Support -40~75℃ wide temperature operation

Introduction

NP302T series are the serial device server that can make serial device be equipped with networking capability instantly and centrally manage the scattered serial devices and hosts via network. This series include 2 types of products and provide 2 RS-232 or RS-485/422 to 1 100M Ethernet copper port. It adopts wall mounting to 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 across gateway and routing 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 easily achieve accurate access control
- Support classification of user management to realize humanized permission management
- Support serial port status and parameters monitoring, ensuring the communication

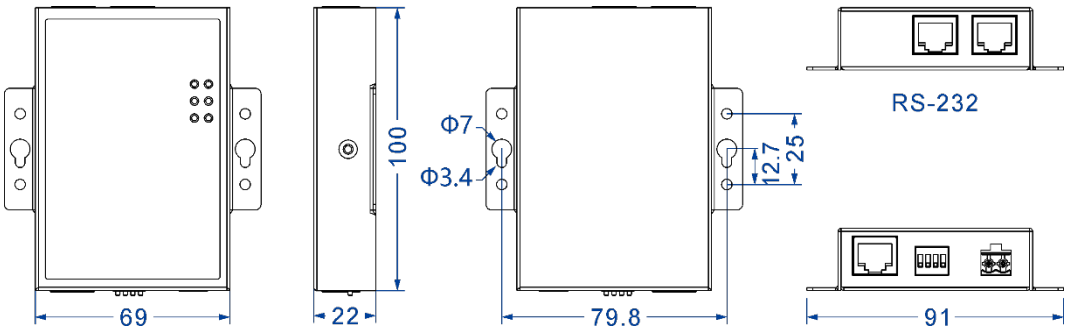
status be clear at a glance

- 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 Windows configuration tool, TELNET, WEB and other configuration forms

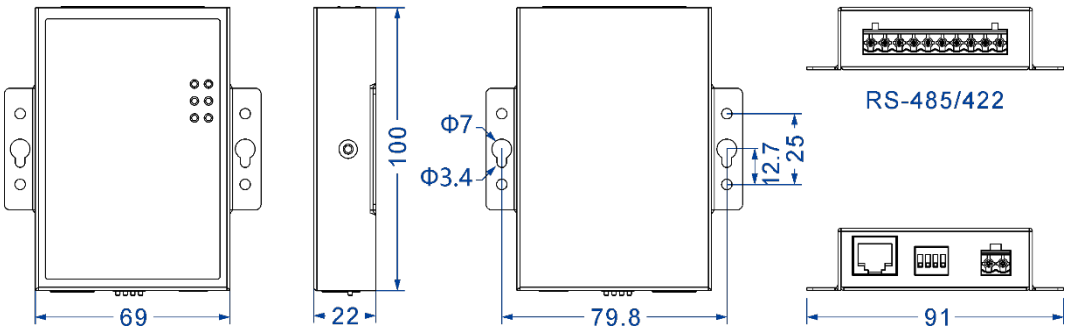
Dimension

Unit:mm

- NP302T-2DI(RS-232)-P(9-48VDC)



- NP302T-2DI(RS-485)-P(9-48VDC)



Specification

Ethernet	Standard: 10Base-T, 100Base-TX Protocol: TCP, UDP, ARP, HTTP, TELNET, ICMP, DHCP, DNS Rate: 10/100M automatic flow control, MDI/MDI-X autotunning Interface quantity: 1 Interface form: RJ45 Duplex mode: full/half duplex mode self-adaption 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
Serial Port	Standard: EIA RS-232C, RS-485, RS-422 Quantity of serial port: 2 RS-232 or RS-485/422 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 Parity bit: None, Even, Odd, Space, Mark Stop bit: 1bit, 2bit Interface form: RS-232 with isolation, adopt RJ45; RS-485/422 with isolation, adopt 10 pins 5.08mm pitch terminal blocks Serial isolation strength: digital isolation, 3kvDC Flow control: RTS/CTS, DTR/DSR, XON/XOFF Load capacity: RS-485/422 end supports 32 points polling (customizable 128 points) Pull high/low resistor for RS-485: 4.7kΩ
Configuration	WEB configuration management, TELNET configuration, Windows configuration tool
Security	Classification of User Permissions, IP address filtering, MAC address filtering
Indicator	Power supply indicator, Ethernet port indicator, serial port indicator
Power Requirement	9~48VDC, 2 pins 5.08mm pitch terminal blocks
Power Consumption	

Model	No-load (@24VDC)	Full-load (@24VDC)
NP302T-2DI(RS-232)-P(9-48VDC)	0.72W	0.77W
NP302T-2DI(RS-485)-P(9-48VDC)	1.01W	1.03W

Environmental Limit	Operating temperature range: -40~75℃ Storage temperature range: -40~85℃ Relative humidity: 5%~95%（no condensation）
Physical Characteristic	Housing: IP40 protection, metal Installation: wall mounting Dimension (W x H x D): 69mm×22mm×100mm Weight: ≤240g
Industrial Standard	IEC 61000-4-2 (ESD, Electro-static Discharge)， Level 3 ● Air discharge: ±8kV ● Contact discharge: ±6kV 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	Power Supply Range
NP302T-2DI(RS-232)-P(9-48VDC)	1	2	—	9~48VDC
NP302T-2DI(RS-485)-P(9-48VDC)	1	—	2	

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◄ Please scan our QR code for more details

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