

NP3XXT 3IN1 Series

Serial Device Server

4/8-port RS-232/485/422 to 1/2-port 10/100Base-T(X)

Features

- Supports 4/8-channel RS-232/485/422 serial ports optional
- Supports 1/2-port 10/100Base-T(X) Ethernet optional, The 2-port 10/100Base-T(X) Ethernet serial server supports two IP addresses and two MAC addresses
- Supports 300bps~115200bps non-blocking communication
- Supports TCP, UDP, ARP, ICMP, HTTP, DNS and DHCP protocols
- Supports TCP Server, TCP Client, UDP Server, UDP Client, UDP Multicast, UDP Rang, Pair Slave, Pair Master and Real Com working mode
- Supports cross-gateway and cross-router communication
- Supports the polling mode and FIFO function
- Supports delimiter matching communication
- Compatible with a variety of virtual serial port management software
- Supports for standard TCP/IP SOCKET application access
- Supports Windows serial driver mode
- Supports virtual serial COM port access
- Supports network interruption automatic recovery
- Provides easy-to-use, configurable Windows configuration tools for bulk installation
- Supports WEB and serial port and other forms of configuration
- Supports low power design, IP30 level protection
- Supports metal shell, wall mounted installation
- Support working temperature of -40~75°C



Introduction

The NP3XXT 3IN1 series are serial-to-Ethernet device servers that enable the serial device to have networking capabilities immediately. They support 4/8-port RS-232/485/422 serial port and 1/2-port 10/100Base-T(X) Ethernet interface optional. The serial device server can easily and centrally manage distributed serial devices and hosts through the network, support TCP, UDP, ARP, ICMP, HTTP, DNS and DHCP protocols, support virtual serial port driver access and network interrupts automatic recovery connection.

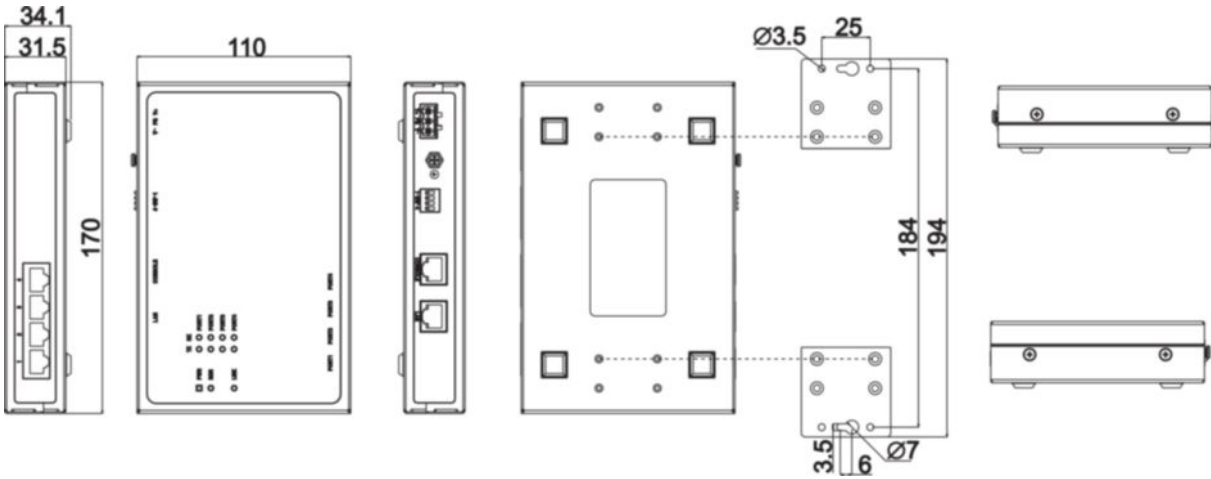
The NP3XXT 3IN1 series provide a powerful Windows platform-based management configuration tool and WEB management interface, which can guide the user to manage the device step by step. All the devices can be configured through the network or serial port, support gateway, cross-routing communication, user-friendly IP Address, server and client mode, packet size, and so on. Through a simple set of serial devices can be achieved immediately network.

The exterior design supports wall-mounted installation for ease of use.

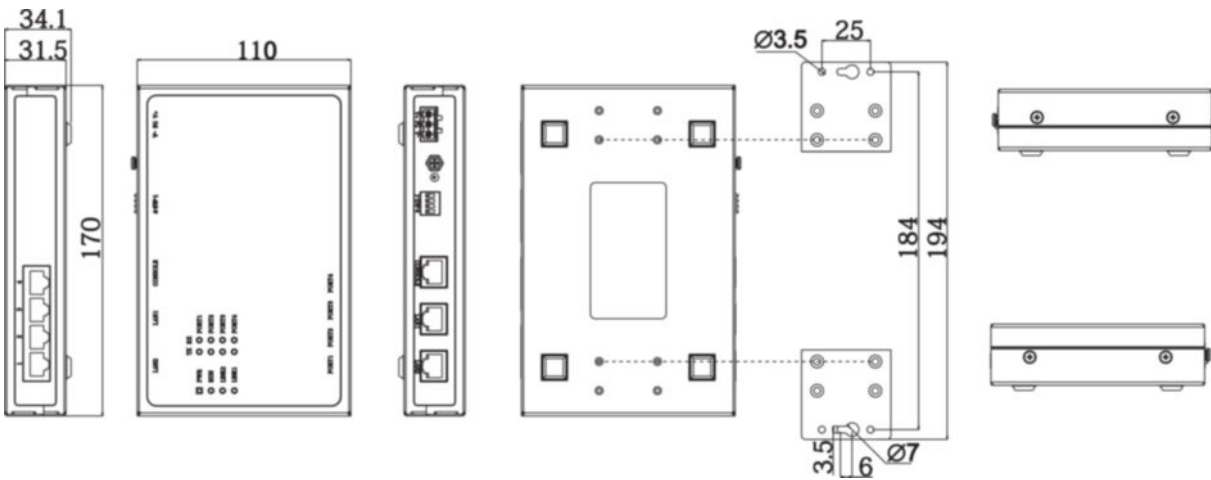
Dimension

Unit: mm

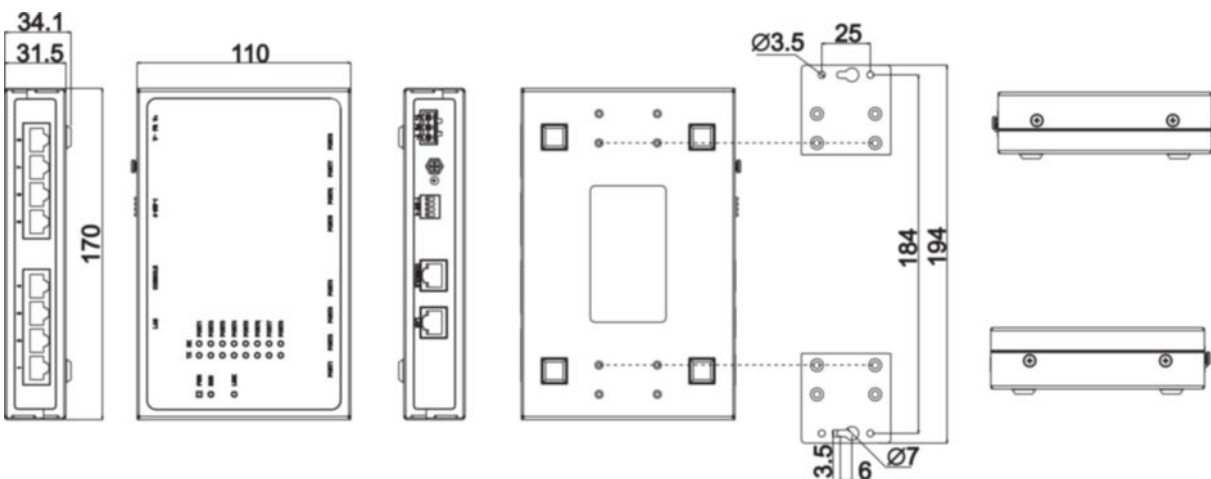
- NP304T-4D (3IN1)-RJ45



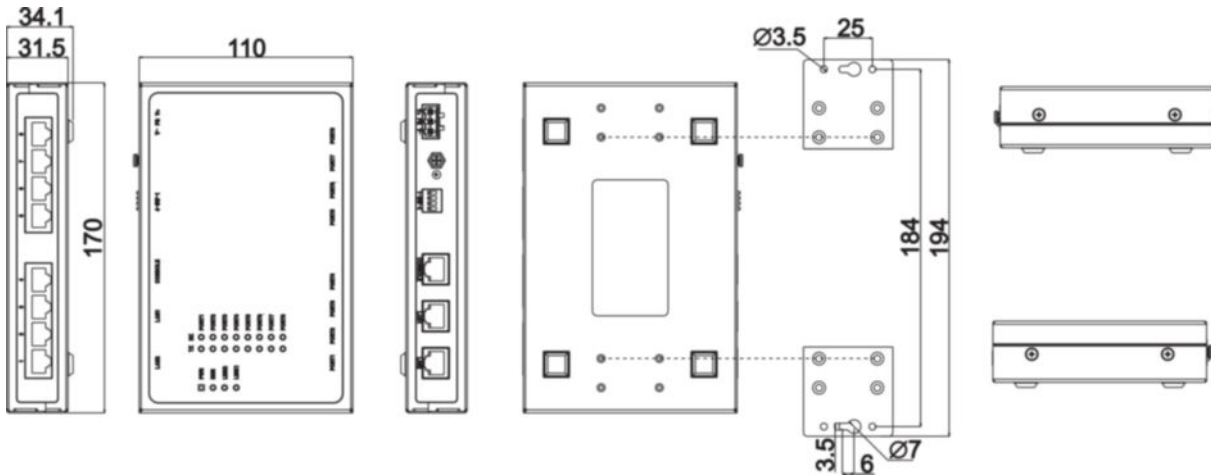
➤ **NP314T-4D (3IN1)-RJ45**



➤ **NP308T-8D (3IN1)-RJ45**



➤ **NP318T-8D (3IN1)-RJ45**



Specification

Ethernet interface

Standard: 10Base-T, 100Base-TX

Protocol: Supports TCP, UDP, ARP, ICMP and DHCP

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

Speed: 10/100Mbps

Working: Full-duplex and half duplex

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

Interface form: RJ45

Serial interface

Serial port: RS-232/485/422

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

RS-485 signal: D+, D-, GND

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

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 using data flow automatic control technology

Load capacity: support 32 point polling environment (customizable 128 points)

Interface Connector

Ethernet port: RJ45

RS-232/485/422 serial port: RJ45

Transfer distance

Ethernet port: 100m (Standard CAT5/CAT5e cable)

RS-232 transfer distance: 15m

RS-485/422 transfer distance: 1200m

LED indicator

Run indicator: RUN

Power supply indicator: PWR

Ethernet Link/Act indicator: LINK

RS-232/485/422 port transmit data indicator: TX

RS-232/485/422 port receive data indicator: RX

Power supply

Input Voltage: 12~48VDC

Consumption

➤ NP304T-4D(3IN1) -RJ45, NP314T-4D(3IN1) -RJ45

No-load consumption: 2.16W@12VDC

Full-load consumption: 3.00W@12VDC

➤ NP308T-8D(3IN1) -RJ45, NP318T-8D(3IN1) -RJ45

No-load consumption: 1.8W@12VDC

Full-load consumption: 3.9W@12VDC

Mechanical Structure

Shell: IP30 protect grade, metal shell

Installation: wall mounting

Weight: 580g

Size (L×W×H): 170.0mm×110.0mm×31.5mm

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

EMS :

IEC 61000-4-2 (ESD), Level 4

- Contact: 8 kV

- Air: 15 kV

IEC 61000-4-4 (EFT), Level 3

- Power: 2 kV

- Signal: 1 kV

IEC 61000-4-5 (Surge), Level 3

- Power: common mode 2 kV

different mode 1 kV

- Signal: common mode 2 kV
 different mode 1 kV

Shock: IEC 60068-2-27
 Free fall: IEC 60068-2-32
 Vibration: IEC 60068-2-6
Warranty: 3 years

Certification

CE, FCC, RoHS, UL508 (Pending)
 See the newest products certification information on 3onedata website

Ordering Information

Available Models	Port Interface		Power Supply
Standard Models	RS-232/485/422	10/100Base-T(X)	12~48VDC
NP304T-4D(3IN1) -RJ45	4	1	
NP314T-4D(3IN1) -RJ45	4	2	
NP308T-8D(3IN1) -RJ45	8	1	
NP318T-8D(3IN1) -RJ45	8	2	