

# 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.

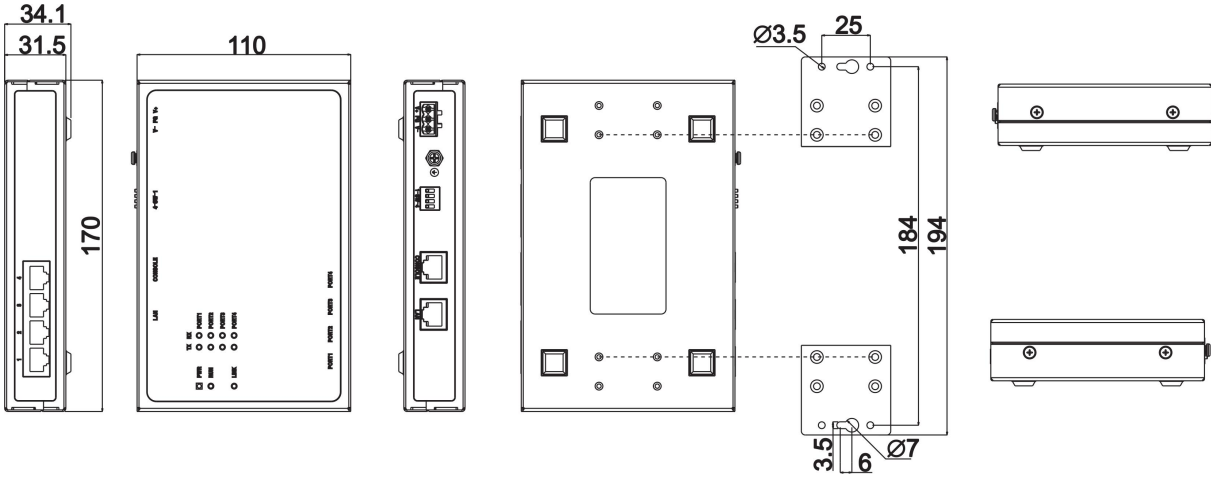
The NP3XXT 3IN1 series provide a powerful Windows platform-based management configuration tool and WEB management interface, which can guide the user to manage the device step by step. All the devices can be configured through the network or serial port, support gateway, cross-routing communication, 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.

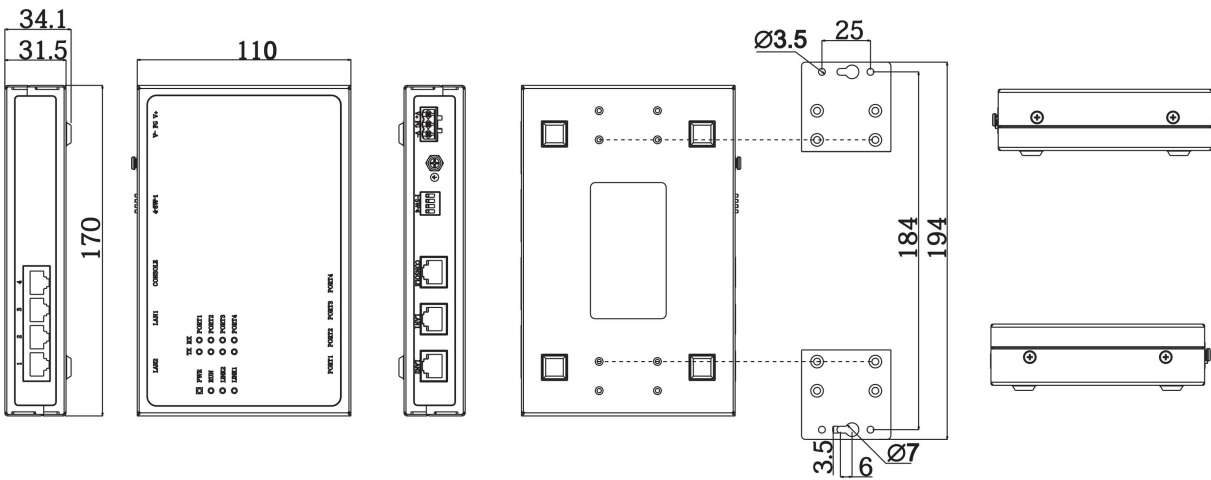
## Dimension

Unit: mm

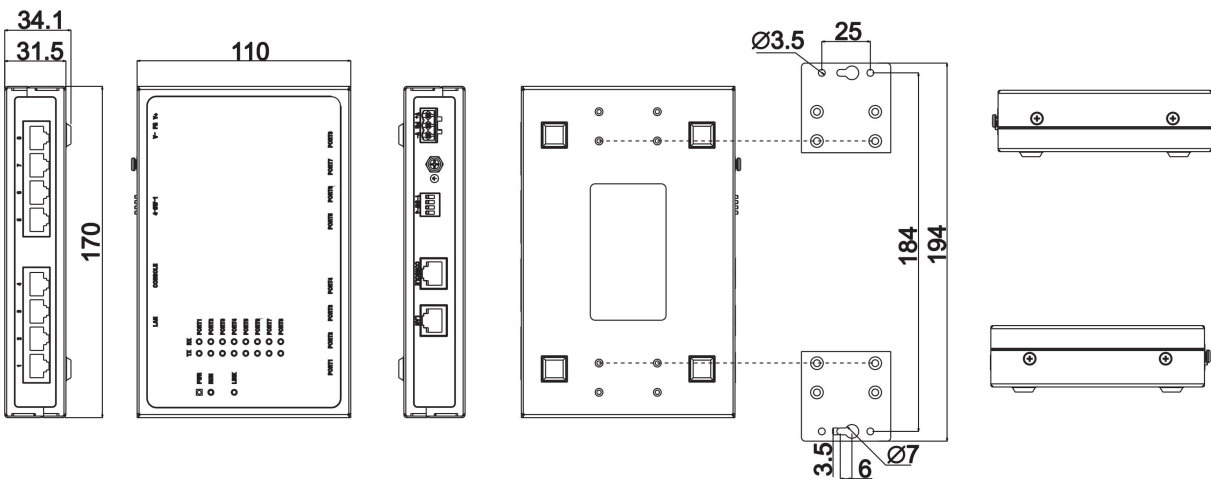
- NP304T-4D (3IN1)-RJ45



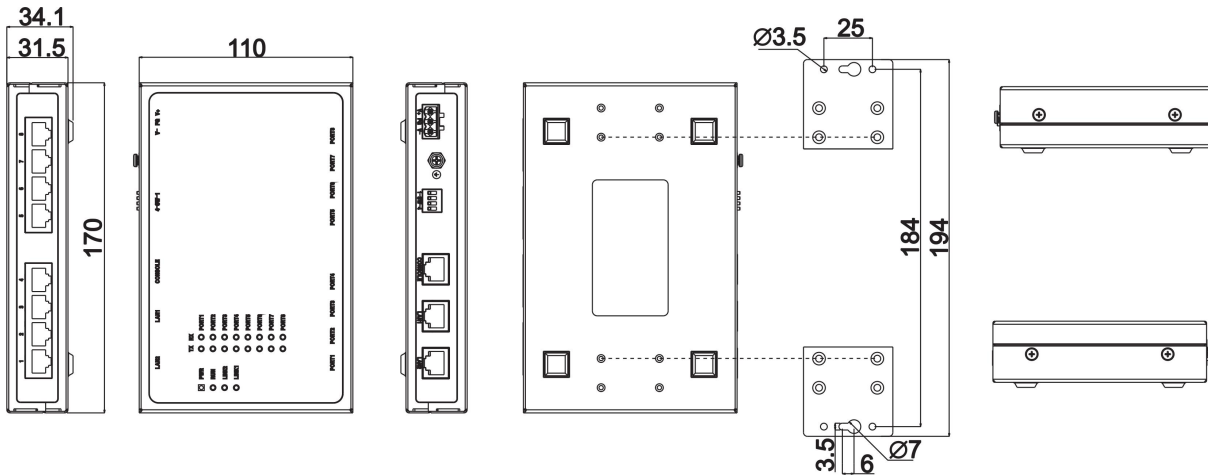
➤ **NP314T-4D (3IN1)-RJ45**



➤ **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	