

## NP3016T-16D (3IN1)

## 16-Port RS-232/485/422 to Ethernet (10/100M)

### Serial Device Server

#### Features

- Support 1 port 10/100M Ethernet
- Support 16 port RS-232/485/422
- Support 300bps to 921600bps non-blocking communication
- Support TCP, UDP, ARP, ICMP, HTTP, DNS and DHCP protocol
- Support TCP Server, TCP Client, UDP Server, UDP Client, UDP Multicast, UDP Rang, Pair Slave, Pair master and Real Com working mode
- Support cross-gateway and cross-router communication
- Support the polling mode
- Compatible with a variety of virtual serial port management software
- Support FIFO function
- Supports Windows serial port driver model
- Support WEB and Telnet configuration
- Support heartbeat time and time over disconnect function
- Support virtual serial COM port access and Network interruption automatic recovery
- Provide Windows configuration tools for easy to use, easy to bath install.
- Industrial grade design, IP30 protection grade
- No fan, low consumption design
- Working temperature: -25~60°C



#### Introduction

NP3016T-16D (3IN1) is a high performance, industrial grade serial to Ethernet server, it can satisfy some kinds of customer requirements in consumption, temperature, volume and handle ability. It provides 16 port RS232/485/422 (connector: RJ45) and 1 port 10/100Base-Tx Ethernet, can focus manage disperse serial device, master through network, easy, convenience. In application, can configure, upgrade through WEB. Support TCP, UDP, ARP, ICMP, HTTP, DNS and DHCP protocol, Support virtual serial COM port access and Network interruption automatic recovery.

Moreover, NP3016T-16D (3IN1) provide strong function configuration tools based in Windows platform, it can guide user configure the device step by step, all configurations are coming true by WEB or Telnet, support cross-gateway and cross-router, user can flexible configure IP address, server and client mode, data bag size etc.

NP3016T-16D (3IN1) adopts EMC protection design, can work in rugged environment. Appearance design support 1U RACK type installation, convenient for engineering use.

#### Specification

##### Ethernet port

Standard: 10Base-T, 100Base-TX

Protocol: Support TCP, UDP, APR, ICMP and DHCP

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

Speed: 10/100Mbps

Working: Full-duplex and half duplex

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

Transfer distance: 100m

Connector: RJ45

**RS-232/485/422 port**

RS232/485/422 port number: 16  
 RS-232 signal: DCD, RXD, TXD, DTR, GND, DSR, RTS, CTS  
 RS-422 signal: T+(A), T-(B), R+(A), R-(B), GND  
 RS-485 signal: D+(A), D-(B), GND  
 Parity bit: None, Even, Odd, Space, Mark  
 Data bit: 5bit, 6bit, 7bit, 8bit  
 Stop bit: 1bit, 1.5bit, 2bit  
 Band rate: 300bps~921600bps  
 Direction control: RS-485 using data flow automatic control technology  
 Load capacity: support 32 point polling environment (customizable 128 points)  
 RS-232 transfer distance: no more than 15m  
 RS-485/422 transfer distance: 1200m  
 Connector: RJ45

**LED Indicator**

Working statue indicator: RUN  
 Power: PWR1  
 Ethernet port connection statue: Link1  
 RS-232/485/422 port transmit data indicator: TX1~TX16  
 RS-232/485/422 port receive data indicator: RX1~RX16

**Power requirements**

Input Voltage: 85~265VAC/DC

No-load consumption: 6.7W@220VAC  
 Full-load consumption: 7.3W@220VAC  
**Mechanical**  
 Shell: IP30 protection, metal shell  
 Installation: 1U 19" rack mounting  
 Weight: 2.5kg  
 Size (W×H×D): 441.6mm×44.6mm×207.9mm

**Environment limits**

Working temperature: -25~60℃  
 Storage temperature: -30~85℃  
 Relative humidity: 0%~95% (non-condensing)

**Standard**

EMI: FCC Part 15, CISPR (EN55022) class A  
 EMS: EN61000-4-2 (ESD), Level 3  
       EN61000-4-4 (EFT), Level 3  
       EN61000-4-5 (Surge), Level 2

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

**Warranty**

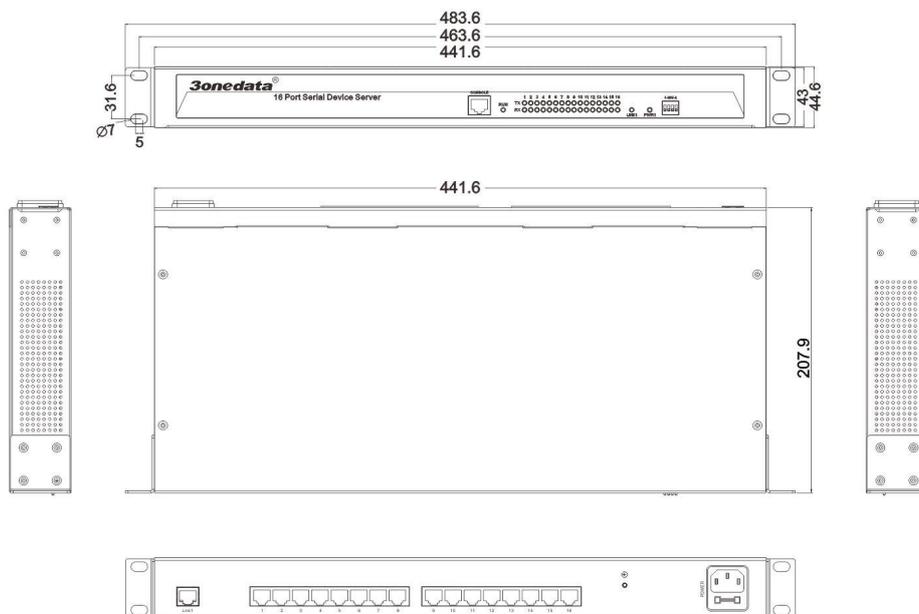
Warranty time: 3 years

**Certificates**

CE, FCC, RoHS, UL508 (pending)

**Dimension**

Unit (mm)





## Ordering Information

**NP3016T-16D (3IN1)-P (85/265VAC):** 16-port RS232/485/422 to Ethernet (10M/100M), AC85~265V, 1U 19" rack mounting

## Packing List

1. NP3016T-16D(3IN1)-P(85/265VAC) × 1
2. User manual × 1
3. Power cable × 1
4. CD × 1
5. Warranty card × 1
6. Certificate of quality × 1
7. Rackmount ears × 2