

NPort Server Pro



Industrial Serial Device Server for Large Scale Applications



Overview

NPort Server Pro is an industrial-strength network-based serial device server for connecting 8/16 RS-232 devices, such as CNCs, PLCs, scales, and scanners, directly to a TCP/IP network (Ethernet or Internet). Compared to similar devices on the market, it has the lowest cost, best performance, and most advanced features.

Both 10 Mbps and 100 Mbps Ethernet connections are supported, providing higher bandwidth, lower traffic impact, and more layout flexibility.

NPort Server Pro has a professional cabinet design, with Tx/Rx LEDs for all ports on the front panel, and all of the 8/16 RJ45 phone jack connectors located on the rear panel. This makes NPort Server Pro suitable for standard 19-inch rack mounting, and simplifies its operation, maintenance, and administration.

Features

- Windows native COM port compatible—existing applications can access NPort Server Pro's COM ports
- Automatic network connection recovery
- Standard 19-inch rack-mountable design for industrial applications
- Provide security mechanism to prevent from unauthorized access
- Auto-detecting 10/100 Mbps Ethernet interface
- RS-232 devices can be shared by multiple hosts
- Supports an advanced security mechanism to avoid unauthorized access
- Comes with PComm Pro, the professional RS-232 communication development tool, including an easy to use API, Data Scope utility, and Performance Analyzer
- Tx/Rx LEDs for all ports to monitor data transmission
Convenient and simple installation wizard
- Simple setup and configuration with a user-friendly GUI—no host reboot required

Benefits

- Can control RS-232 devices located virtually anywhere via the Ethernet or Internet
- No need to change existing application software, saving hardware upgrade costs
- Highly reliable network to serial solution—runs smoothly over the network

Applications

- Industrial/Factory automation
- SCADA systems
- Telecommunications
- Automatic warehouse control
- Building automation
- Wafer fabrication systems
- Self-service banking systems
- Large scale retail systems
- Other remote and/or distributed serial device control

Ports Interface	1	2	4	8	16	32
RS-232				✓	✓	
RS-422						
RS-485						

Specifications

Hardware

Processor	Intel i960CA RISC processor
I/O controller	16C954 or compatible
Memory	1 MB (8 ports), 2 MB (16 ports)
Connector type	RJ45

Interface

LAN	100Base-TX (10/100 Mbps)
Serial	RS-232
No. of ports	8 or 16
Signals	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

Performance

Speed	50 bps – 230.4 Kbps
Max. No. of ports	256 (per Windows NT)

Configuration

Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	Nil
I/O address	Nil

OS Supported

DE-308	Windows 2000, Windows NT,
DE-303	Windows 95/98/ME, UnixWare SVR4.2, UnixWare 7 SVR5, SCO Open Server, SCO UNIX, Linux 2.2.x/2.0.x (Intel x86) (running TCP/IP)

Power and Environment

Power requirements	90 – 260V, 47 – 63 Hz, 60W
Operating temp.	0-55°C
Rackmount	19-in standard rack
Dimensions	400 x 190 x 44 mm (W x D x H)
Surge Protection	15 KV ESD

Magnetic Isolation 1.5 KV for Ethernet

Regulatory approvals FCC, CE, UL, C/UL, BSMI

If you need a product with optical isolation, see the Optional Accessories list below for more information.

Ordering Information

DE-308	8 port RS-232 device server
DE-303	16 port RS-232 device server
All items include	<ul style="list-style-type: none"> Windows NT, Windows 2000, Windows 95/98, UNIX drivers and manual PComm Pro CD (professional serial comm development tool) One CN20040 cable

Optional Accessories

A52	Smart RS-232 to RS-422/485 Bi-Directional Converter
A53	Smart RS-232 to RS-422/485 Bi-Directional Converter, supports optical isolation protection (2 KV)
CN20030	150 cm RJ45 to female DB25 RS-232 (DCE) cable
CN20040	150 cm RJ45 to male DB25 RS-232 (DTE) cable