

# NPort Server Pro

8/16 Port Industrial Serial Device Server for 100 Mbps Ethernet

## 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 cabin 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 19 inch standard rack mounting, and simplifies its operation, maintenance, and administration.

## NPort Server Pro

### Software

- RS-232 devices can be shared by multiple hosts
- Windows COM port compatible – custom application program can access the COM ports on NPort Server Pro
- UNIX pseudo TTY compatible – custom application program can access the TTYs on NPort Server Pro
- Supports a security mechanism to avoid unauthorized access
- Simple setup and configuration with a user-friendly Windows GUI
- Provides a professional RS-232 communication developing tool, MOXA PComm Pro, including an easy-to-use API to shorten the developing time, Data Scope utility to see what's on the RS-232 line and a Performance Analyzer to check serial comm performance

## Features

### Hardware

- Can control RS-232 devices located virtually anywhere, via Ethernet or Internet
- Provides an unlimited number of RS-232 ports (only limited by the OS - 256 max. per NT host)
- Auto-detects 100 Mbps Ethernet interface (10/100 Mbps)
- Professional case design, ready for 19 inch rack
- Tx/Rx LEDs for all ports to monitor data transmission
- Standalone server – no interface board is required, no slot is wasted
- No resource conflict problems, such as with IRQ and I/O addresses
- Easy cable layout using standard Ethernet cable

### 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	1	2	4	8	16
Interface	232	422	485		

## Specifications

### Hardware

Processor	Intel i960CA RISC processor
I/O controller	16C654 or compatible (auto hardware flow control)
Memory	1 MB (8 ports), 2 MB (16 ports)
Connector type	RJ45
Rack-mountable	Yes

### 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 - 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 NT, UnixWare SVR4.2,
DE-303	Unix Ware7 SVR5, SCO Open Server, SCO UNIX, Linux 2.2.x (Intel x86) (running TCP/IP)

### Power and Environment

Power requirements	90V- 260V, 47- 63Hz, 60W
Operating temp.	0 - 55 C
Dimensions	440 x 160 x 45 mm (W x D x H)
Surge Protection	15 KV ESD

## Ordering Information

DE-308	8 port RS-232 device server
DE-303	16 port RS-232 device server
All items include • Windows NT drivers and manual • MOXA PComm Pro – professional serial comm developing tool CD • One CN20030 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)
A60	RS-232 Surge Protector (25 KV ESD)
CN20030	150 cm RJ45 to female DB25 RS-232 (DCE) cable
CN20040	150 cm RJ45 to male DB25 RS-232 (DTE) cable

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