

NPort Server Lite

1/2/4 Ports Industrial Serial Device Server for 100M Ethernet

Coming Soon

Overview

NPort Server Lite Series is an industrial-strength network-based serial device server for connecting up to four RS-232 or RS-422/485 devices like CNCs, PLCs, weighing scales, scanners and other devices directly to the 10/100M Ethernet network running TCP/IP.

Through the revolutionary built-in human interface with Liquid Crystal Module (LCM) for displaying data/status and buttons for inputting data or selecting mode, you can easily set up the server, such as IP address, net mask, and gateway, and monitor the server status and data transmission. Eliminate the need to prepare additional PCs during installation.

In addition to allowing serial devices to get networked, any host (PC Server or Workstation) without network access can also access remote serial device via adding NPort Server Lite to the existing serial port. In other word, a pair of 1-port NPort Server Lites can be configured over Ethernet and serve as a transparent serial channel without platform and distance limitation.

Features

Hardware

- Can control RS-232 or RS-422/485 devices virtually anywhere (via Ethernet or Internet)
- Provide unlimited number of RS-232 or RS-422/485 ports (only limited by system restriction, 256 max. per Windows NT host, 128 max. per Windows 95/98 host)
- Auto-detecting 10/100 Mbps Ethernet interface
Built-in human interface with Liquid Crystal Module (LCM) and buttons for setting up the server and displaying server status
- Industrial-strength, highly reliable at all ports with surge protection 15KV ESD

NPort Server Lite

- Capability for hot-swap, easy maintenance.
- RS-485 Automatic Data Direction Control (ADDC)

Software

- Provide pair-connection mode and host-based mode
No host reboot required after adding new NPort Server Lite
- Support Windows NT, Windows 95/98
- Support DHCP
- Self diagnostic and report
- Software selectable RS-422/485 interface

Applications

- Industrial/Factory/Laboratory automation
- SCADA system
- Automatic warehouse control system
- Building automation system
- Wafer fabrication system
- Self-service banking system
- Retail system
- Other remote and distributed serial devices control

Port	1	2	4	8	16
Interface	232	422	485		

Specification

Hardware

Processor	80186
I/O controller	
DE-301/331:	16C550C or compatible x 1
DE-302/332:	16C550C or compatible x 2
DE-304/334:	16C550C or compatible x 4
Memory	512K bytes
Connector type	DB9

Interface

LAN interface	Auto-detecting 10BaseT/100BaseT
Serial interface	RS-232 or RS-422/485
No. of port	1/2/4 Ports
Signals	RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND RS-422: TxD+/-, RxD+/-, RTS+/-, CTS+/-, GND RS-485: Data+/-, GND

Performance

Speed	50 ~ 230.4K bps
Max. no. of port	256 per Windows NT, 128 per Windows 95/98

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-301	
DE-302	
DE-304	Windows NT, Windows 95/98
DE-331	(running TCP/IP)
DE-332	
DE-334	

Power and Environment

Operating temp.	0 ~ 55°C
Surge Protection	15KV ESD
Operating humidity	5% ~ 95%

Ordering Information

DE-301	1 port RS-232 device server
DE-302	2 ports RS-232 device server
DE-304	4 ports RS-232 device server
DE-331	1 port RS-422/485 device server
DE-332	2 ports RS-422/485 device server
DE-334	4 ports RS-422/485 device server
All items include	<ul style="list-style-type: none"> • Windows NT, Windows 95/98 device driver and manual • MOXA PComm Pro – professional serial comm developing tool CD • Cross-wired 10/100M Ethernet 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 (2KV)
A60	RS-232 Surge Protector (2KV)

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