

NPort 6450 Series

4-port Secure Serial Device Servers



Features

- Easy-to-use LCM (Liquid Crystal Module) interface for IP address configuration
- Versatile socket operating modes, including TCP Server, TCP Client, UDP, Pair Connection, Real Com driver, and RFC2217
- Secure Ethernet Data mode for TCP Server, TCP Client, Pair connection, and Real COM driver
- Any Baudrate mode for more precise baudrate
- One 10/100BaseTx Ethernet port with 802.3af Power Over Ethernet (POE)
- Port buffering function that prevents serial data loss when Ethernet is off-line
- SD card slot to increase port buffering memory
- Network module socket for network expansion



Overview

NPort 6450 is a secure serial device server that has 4 RS-232/422/485 serial ports. An assortment of RS-232/422/485 devices can be connected to the same NPort 6450, with all

devices using the same IP address. NPort 6450's Ethernet port can be configured for either a normal TCP/IP connection or secure TCP/IP connection.

Ordering Information

NPort 6450-US: 4-port RS-232/422/485 to Ethernet Secure Device Server, 110 VAC, US Plug

NPort 6450-EU: 4-port RS-232/422/485 to Ethernet Secure Device Server, 240 VAC, Euro Plug

NPort 6450-UK: 4-port RS-232/422/485 to Ethernet Secure Device Server, 240 VAC, UK Plug

NPort 6450-JP: 4-port RS-232/422/485 to Ethernet Secure Device Server, 100 VAC, US Plug

NPort 6450-SAA: 4-port RS-232/422/485 to Ethernet Secure Device Server, 240 VAC, Australian Plug

NPort 6450-CN: 4-port RS-232/422/485 to Ethernet Secure Device Server, 240 VAC, US Plug

All items include

- 1 NPort 6450
- Document and Software CD-ROM
- Power Adaptor

Optional Accessories (choose one per board)

DK-35A: DIN-Rail Mounting Kit (35 mm)

CBL-RJ45M9-150: 8-pin RJ45 to male DB9 cable, 150 cm

CBL-RJ45F9-150: 8-pin RJ45 to female DB9 cable, 150 cm

CBL-RJ45M25-150: 8-pin RJ45 to male DB25 cable, 150 cm

CBL-RJ45F25-150: 8-pin RJ45 to female DB25 cable, 150 cm

NP21101: DB25(M) to DB9(F) RS-232 Cable, 30 cm

NM-TX01: 1 RJ45 Ethernet Module

NM-FX01-S-SC: 1 Single Mode Fiber Ethernet Module with SC connector

NM-FX01-M-SC: 1 Multi Mode Fiber Ethernet Module with SC connector

NM-FX02-S-SC: 2 Single Mode Fiber Ethernet Modules with SC connectors, and Fiber redundancy

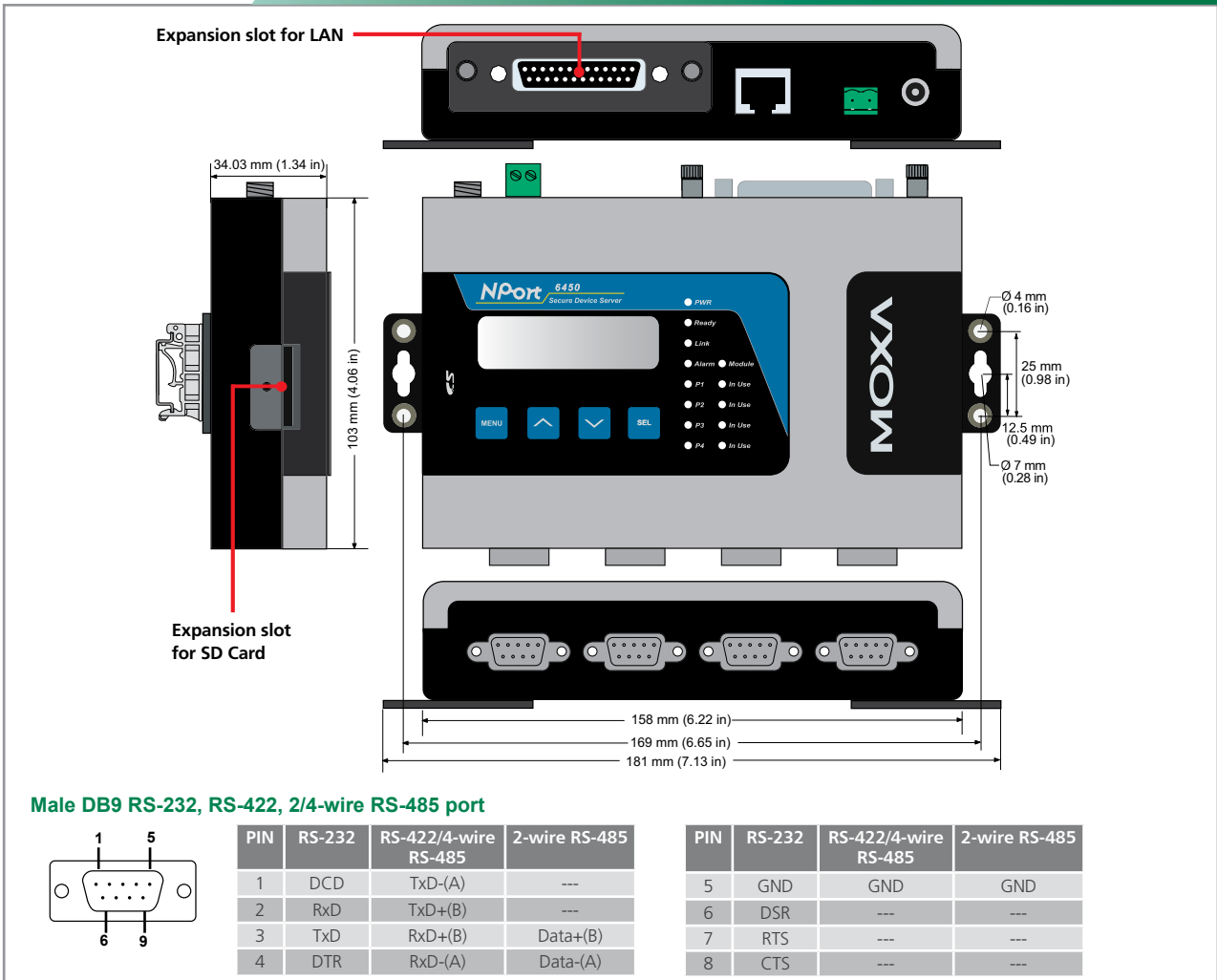
NM-FX02-M-SC: 2 Multi Mode Fiber Ethernet Modules with SC connectors, and Fiber redundancy

NM-PR01: 1 Printer Port Module

NM-TX01 NM-FX01-S-SC NM-FX02-S-SC NM-PR01
 NM-FX01-M-SC NM-FX02-M-SC



Dimensions



Specifications

LAN

Ethernet: 1 10/100 Mbps, RJ45

Protection: Built-in 1.5 KV magnetic isolation

Optical Fiber (Network Module)

Distance:

Multi mode: 0 to 2 km, 1310 nm (62.5/125 μ m, 500 MHz*km)

Single mode: 0 to 40 km, 1310 nm (9/125 μ m, 3.5 PS/(nm*km))

Min. TX Output:

Multi mode: -20 dBm, Single mode: 0 to 40 km, -5 dBm

Max. TX Output:

Multi mode: -14 dBm, Single mode: 0 to 40 km, 0 dBm

Sensitivity:

Multi mode: -34 to -30 dBm, Single mode: -36 to -32 dBm

Serial

No. of ports: 4

Interface: RS-232/422/485, Male DB9

Serial Communication Parameters

Parity: None, Even, Odd, Space, Mark

Data bits: 5, 6, 7, 8

Stop bits: 1, 1.5, 2

Flow control: RTS/CTS, XON/XOFF

Speed: 50 bps to 921.6 Kbps

Console Ports: RS-232 console x 1 (port 1)

Storage: One SD socket

Software Features

Protocols: ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP

Utilities: NPort Search Utility for Windows 95/98/ME/NT/2000/XP/2003

OS Driver Support: Windows 95/98/ME/NT/2000/XP/2003/XP x64/2003 x64 COM driver, Linux real TTY driver, Unix

Configuration: Web/Serial/Telnet console

Power Requirements

Power input: 12 to 48 VDC

Mechanical Specifications

Material: SECC sheet metal (0.8 mm)

Environmental

Operating Temperature: 0 to 55°C (32 to 131°F), 5 to 95% RH

Storage Temperature: -20 to 85°C (-4 to 185°F), 5 to 95%RH

Regulatory Approvals

EMC: CE: EN55022 Class A/EN55024

FCC: FCC Part 15 Subpart B, Class A

Safety: UL: UL60950-1, TÜV: EN60950-1

Warranty: 5 years