NPort 6650 Series

8/16-port Secure Serial Device Servers

Coming Soon

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**

> **1 10/100BaseTx Ethernet port with 802.3af Power Over Ethernet (POE)**

> **Port buffering function that prevents serial data loss when Ethernet is off-line**

> **Uses SD card to increase port buffering size**

> **Network module socket for network expansion**

: Overview

NPort 6650 comes in 8-port and 16-port models for connecting higher densities of serial devices to Ethernet. When connecting large numbers of serial devices, or even when connecting the console port of equipment, users may need higher security when sending data through a TCP connection. NPort 6650 supports secure communication between the computer and serial devices over Ethernet. We have implemented DES, 3DES, and AES, which are the most popular standards for data encryption, as the security mechanisms for NPort 6650.

: Ordering Information

NPort 6650-8-US: 8-port RS-232/422/485 to Ethernet Secure Device Server, 110 VAC input

NPort 6650-16-US: 16-port RS-232/422/485 to Ethernet Secure Device Server, 100-240 VAC input

All items include

- 1 NPort 6650
- Quick Installation Guide
- Document and Software CD-ROM
- Power Adaptor
- CBL-RJ45F9-150 x 1
- CBL-RJ45M25-150 x 1

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

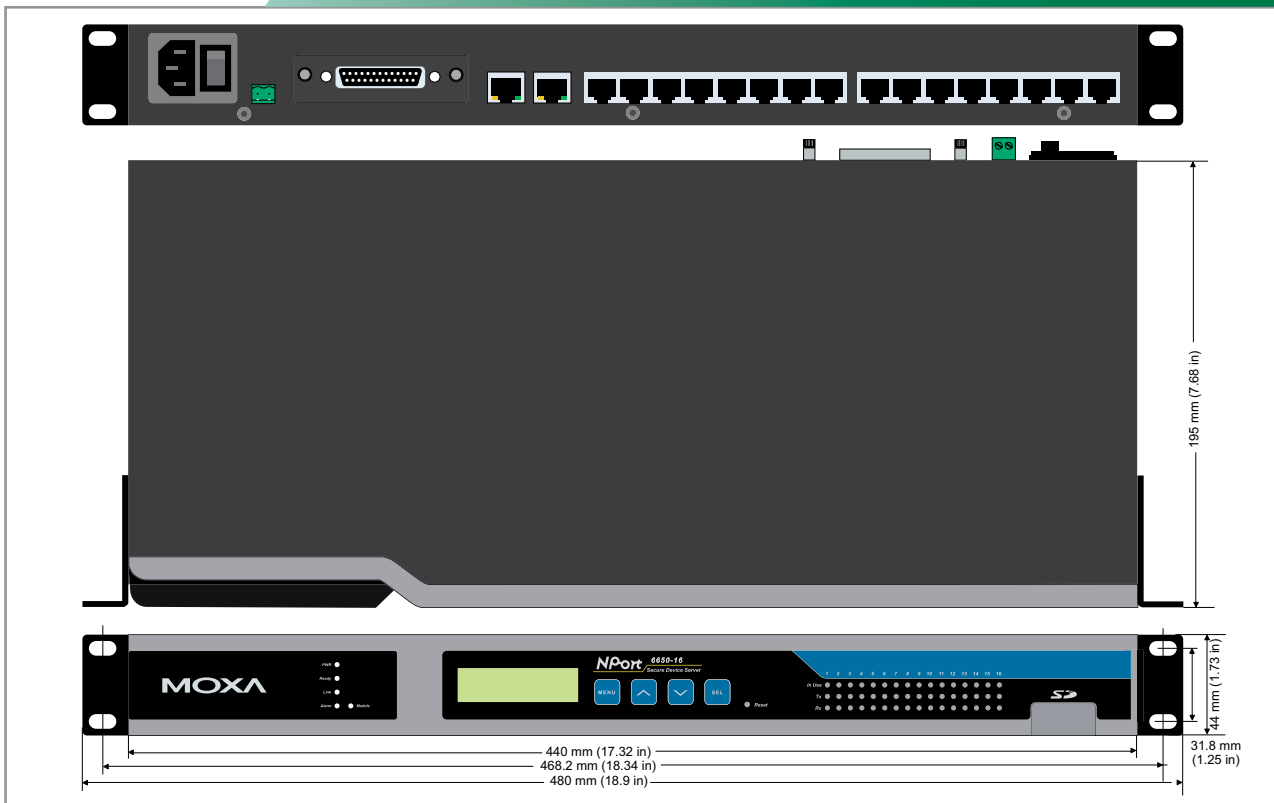**NM-FX02-S-SC:** 2 Single Mode Fiber Ethernet Modules with SC connectors, and Fiber redundancy

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

Dimensions

440 mm (17.32 in)
468.2 mm (18.34 in)
480 mm (18.9 in)

195 mm (7.68 in)

44 mm (1.73 in)
31.8 mm (1.25 in)

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 µm, 500 MHz*km)
Single mode: 0 to 40 km, 1310 nm (9/125 µm, 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: 8 (NPort 6650-8), 16 (NPort 6650-16)
Interface: RS-232/422/485, RJ45 (8 pins)

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 x1

Storage
One SD/MMC socket
Software Features
Protocols: ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP
Security Protocols: DES/3DES/AES
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
Configuration: Web/Serial/Telnet console,
Power Requirements
Power input: 100 to 240 VAC
Mechanical Specifications
Material: SECC sheet metal (1 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