NPort 6250 Series

2-port Secure Serial Device Servers

Features

> **Make your serial devices Internet ready**

> **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 x 10/100BaseTX (RJ45) or 1 x 100BaseFX (SC connector, Single/Multi mode)**

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

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

: Overview

NPort 6250's serial port can be configured for RS-232, RS-422, or RS-485 (both 2-wire and 4-wire RS-485 are supported). Either copper or fiber (single-mode or multi-mode) can be used for the Ethernet port.

: Prevent Data Loss when the Ethernet Fails

NPort 6250 device servers are reliable serial-to-Ethernet products that provide users with secure data transmission and a customer-oriented hardware design. When the Ethernet connection fails, NPort 6250 will queue all of the serial data in its internal 64 KB port buffer. When the Ethernet is reconnected, NPort 6250 will immediately send all of the data stored in the buffer in the order that it was received. Users can expand the storage size by using NPort 6250's SD card expansion feature.

: Ordering Information

NPort 6250-US: 2-port RS-232/422/485 to Ethernet Secure Device Server

NPort 6250-M-SC-US: 2-port RS-232/422/485 to one Multi Mode Fiber Ethernet Secure Device Server

NPort 6250-S-SC-US: 2-port RS-232/422/485 to one Single Mode Fiber Ethernet Secure Device Server
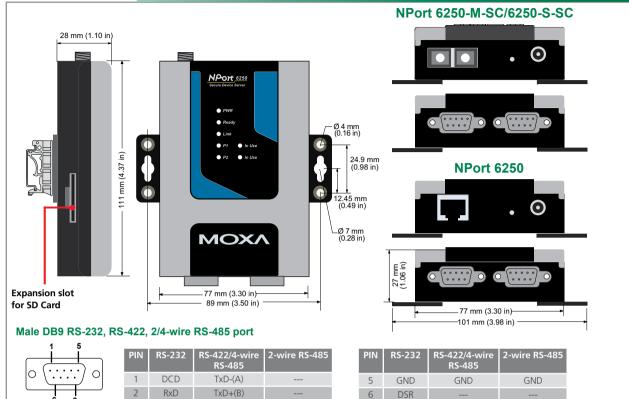
All items include

• 1 NPort 6250

• Document and Software CD-ROM

• Power Adaptor

Optional Accessories

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

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

Dimensions

28 mm (1.10 in)

111 mm (4.37 in)

Expansion slot for SD Card

77 mm (3.30 in)
89 mm (3.50 in)

Ø 4 mm (0.16 in)

24.9 mm (0.98 in)

12.45 mm (0.49 in)

Ø 7 mm (0.28 in)

NPort 6250-M-SC/6250-S-SC

NPort 6250

27 mm (1.06 in)

77 mm (3.30 in)
101 mm (3.98 in)

Male DB9 RS-232, RS-422, 2/4-wire RS-485 port

PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
1	DCD	TxD-(A)	---
2	RxD	TxD+(B)	---
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)

PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
5	GND	GND	GND
6	DSR	---	---
7	RTS	---	---
8	CTS	---	---

Specifications

LAN
NPort 6250-S-SC/NPort 6250-M-SC
Fiber Port: 1 100BaseFX port (SC connector)
NPort 6250
Ethernet: 1 10/100 Mbps, RJ45
Protection: Built-in 1.5 KV magnetic isolation

Optical Fiber
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: 2
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
Protocol: 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: Aluminum (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