NPort 6250 Series

2-port Secure Terminal Server

Features

- Easy way to make serial devices Internet ready
- Versatile socket operating modes, including TCP Server, TCP Client, UDP, Pair Connection, Real COM, and RFC2217
- Secure modes for TCP Server, TCP Client, Pair Connection, and Real COM
- Any baudrate supported with high precision
- 10/100BaseTX RJ45 port or 100BaseFX port (SC connector, single/multi mode)
- Port buffers to hold serial data when Ethernet is off-line
- SD slot for optional expansion of port buffers

: Overview

The NPort 6250's two serial ports can be independently configured for RS-232, RS-422, or RS-485 communication. Both 2-wire and 4-wire RS-485 are supported. Models are available for both copper and fiber (single-mode or multi-mode) Ethernet ports.

: No Data Loss if Ethernet Connection Fails

The NPort 6250 is a reliable device server that provide users with secure serial-to-Ethernet data transmission and a customer-oriented hardware design. If the Ethernet connection fails, the NPort 6250 will queue all serial data in its internal 64 KB port buffer. When the Ethernet connection is re-established, the NPort 6250 will immediately release all data in the buffer in the order that it was received. Users can increase the port buffer size by installing an SD card.

: Ordering Information

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

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

NPort 6250-S-SC: 2-port RS-232/422/485 to one Single Mode Fiber Ethernet Secure Terminal Server
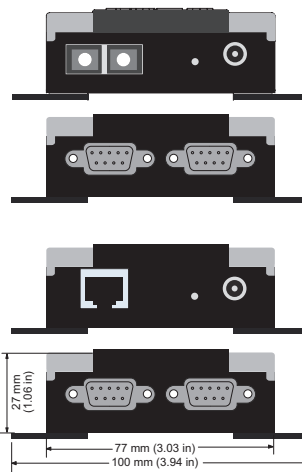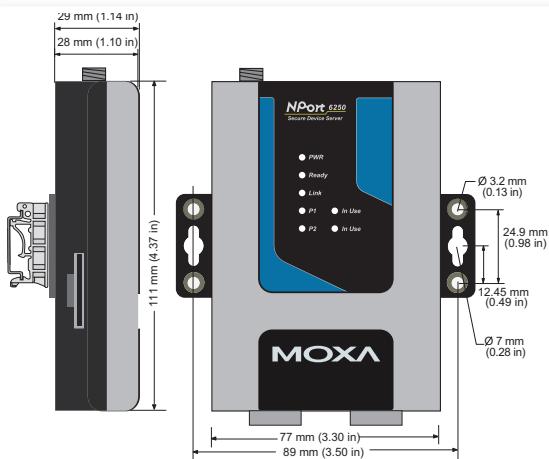
Package Checklist

- 1 NPort 6250
- Quick Installation Guide
- Document and Software CD-ROM
- Power Adaptor

Optional Accessories

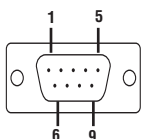**DK-35A:** DIN-Rail Mounting Kit (35 mm)

Dimensions (unit = mm)

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

NPort 6250

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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, DB9 (Male)

Serial Communication Parameters
Parity: None, Even, Odd, Space, Mark
Data Bits: 5, 6, 7, 8
Stop Bit(s): 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 slot

Software Features
Protocols: ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP, ARP, SSH, SSL, PPPoE, DDNS, RIP
Utilities: Windows utility for Windows 98/ME/2000/XP/2003/XP x64/ 2003 x64/Vista x64
Security Protocols: DES, 3DES, AES, Radius, Local,PAP, CHAP
OS Driver Support: Windows 95/98/ME/NT/2000/XP/2003/ XP x64/2003 x64/Vista x64 COM driver
Configuration: Web/serial/Telnet console

Power Requirements
Power Input: 12 to 48 VDC
Power Consumption:
NPort 6250: 430mA @ 12V (max.)
NPort 6250-M-SC: 430mA @ 12V (max.)
NPort 6250-S-SC: 430mA @ 12V (max.)

Mechanical Specifications
Material: Aluminum (1 mm)
Gross Weight: 730g

Environment
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
MTBF:
NPort 6250: 226128 hours
NPort 6250-M: 225762 hours
NPort 6250-S: 225762 hours