NPort 5150

Features

- Low cost; credit card size
- Real COM/TTY driver for Windows and Linux
- Versatile socket operation modes, including TCP Server, TCP Client, UDP Server/Client, and Ethernet Modem
- Pair Connection mode for connecting two serial devices over a network without a PC
- Easy-to-use Windows Utility for mass installation
- Built-in 15 KV ESD protection for all serial signals
- SNMP MIB-II for network management
- Configuration via Web/Telnet

Overview

The typical shop floor uses several RS-232, RS-422, and RS-485 serial devices. Engineers who want to use only one model of device server to control all of their serial devices over Ethernet can choose NPort 5150, since NPort 5150's serial port has a 3-in-1 RS-232/422/485 design. A simple adjustment of NPort 5150's configuration allows users to select RS-232, RS-422, or RS-485 to manage many different devices, including barcode readers, card readers, PLCs, and robots.

Most Cost-effective Device Server

Using serial-to-Ethernet to connect legacy serial devices to Ethernet is no longer a novel solution. Users now expect to be able to find device servers that are cost-effective, provide a broad selection of different functions, and are high quality. With its full support of Microsoft and Linux operating systems and solid 5-year warranty, NPort 5150 is one of the best device server solutions in the worldwide industrial market.

Locate NPort 5150 Easily

The Administrator tool that MOXA provides helps users monitor NPort 5150's status. When a user wants to modify a device server's configuration, the "Locate NPort" function can be used to identify the correct device server. When using this function, the specified NPort 5150's "Ready" LED will flash once every second. Users can check which NPort 5150's LED is flashing to ensure that they update the configuration of the correct NPort 5150.

Ordering Information

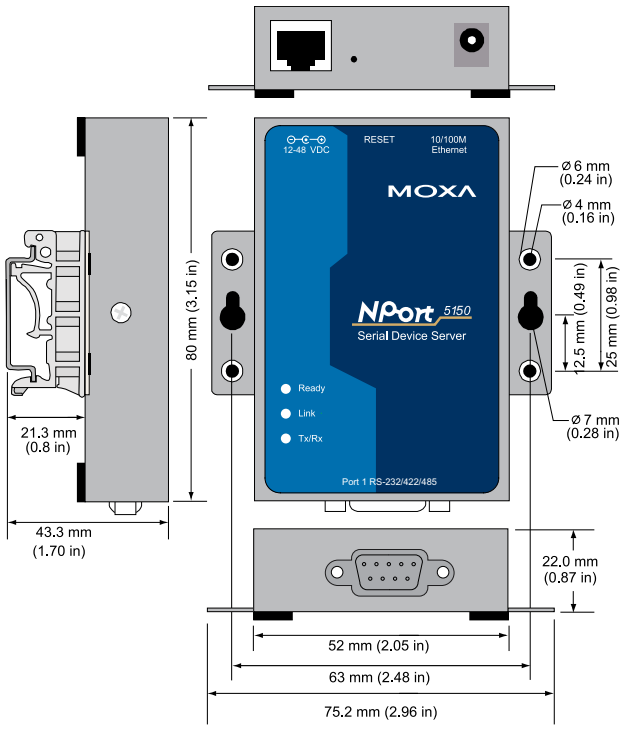
NPort 5150-US: 1-port RS-232/422/485 Device Server, 110 VAC, US plug
NPort 5150-EU: 1-port RS-232/422/485 Device Server, 240 VAC, Euro plug
NPort 5150-UK: 1-port RS-232/422/485 Device Server, 240 VAC, UK plug
NPort 5150-JP: 1-port RS-232/422/485 Device Server, 100 VAC, US plug
NPort 5150-SAA: 1-port RS-232/422/485 Device Server, 240 VAC, Australia plug
NPort 5150-CN: 1-port RS-232/422/485 Device Server, 240 VAC, US plug

All items include

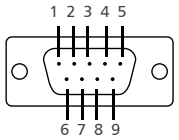
- 1 NPort 5150 serial device server
- Power Adaptor
- Quick Installation Guide
- NPort Document and Software CD-ROM

Optional Accessories

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



Male DB9 RS-232/422/485 port



PIN	RS-232	RS-422/485 (4W)	RS-485 (2W)
1	DCD	TxD-(A)	–
2	RxD	TxD+(B)	–
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	–	–
7	RTS	–	–
8	CTS	–	–
9	–	–	–

Specifications

LAN

Ethernet: 10/100 Mbps, RJ45, Auto MDI/MDIX

Protection: Built-in 1.5 KV magnetic isolation

Serial

Interface: RS-232/422/485 (software selectable)

No. of Ports: 1

Port Type: Male DB9

Signals:

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

RS-422: Tx+, Tx-, Rx+, Rx-, GND

RS-485 (2-wire): Data+, Data-, GND

RS-485 (4-wire): Rx+, Tx-, Rx+, GND

Serial Line Protection: 15 KV ESD for all signals

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

Software Features

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

Utilities: NPort Administration Suite 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, SCO Unix, SCO OpenServer 5, UnixWare 7, UnixWare 2.1.x, SVR4.2, QNX

Configuration:
Web/Serial/Telnet console, or Windows utility

Power Requirements

Power input: 12 to 48 VDC

Power Consumption: 200 mA@12V, 106 mA @24V

Power Line protection:
1 KV Burst (EFT), EN61000-4-4
0.5 KV Surge, EN61000-4-5

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, UL 508
TÜV: EN60950-1

Warranty: 5 years