

NPort 5600 Series

World's Leading LCM Display Rackmount Serial Device Servers

Features

- Easy-to-use LCM (Liquid Crystal Module) interface for IP address configuration
- Standard 19-inch rack-mountable
- Auto-detecting 10/100 Mbps Ethernet
- 16/8 RS-232/422/485 ports
- Surge protection for all serial signals (15 KV ESD)
- Supports TCP Server, TCP Client, UDP, and Real COM Modes
- Supports web and telnet consoles
- Supports SNMP MIB-II for network management
- ±48 VDC for Telecom Applications



Make Up to 16 RS-232/422/485 Serial Devices Internet Ready

NPort 5600 provides a convenient and transparent Ethernet connection method that not only protects your current hardware investment, but also ensures future network expandability. Perform some simple configuration tasks, and you'll be ready to network your existing serial devices. NPort

5600 can transparently transmit data bi-directionally between the serial and Ethernet interfaces. By using NPort 5610, you can centralize serial device management and distribute the management hosts at the same time.

19-inch Rackmount Device Server

NPort 5600 Series has a professional cabinet design, with Tx/Rx LEDs for all ports on the front panel, and the 8/16 RS-232 RJ45 connectors on the rear panel. This makes NPort

5600 Series suitable for standard 19-inch rack mounting, simplifying operation, maintenance, and administration.

Real COM/TTY Port

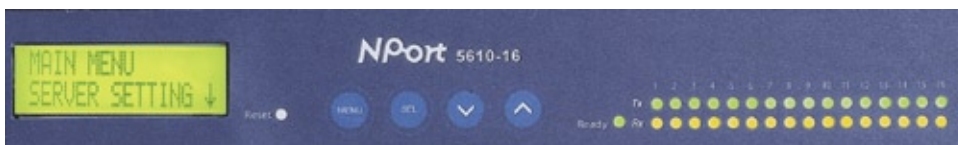
After installing the real COM/TTY driver that comes with NPort 5600 Series, the serial ports on NPort 5600 Series are recognized as Real COM ports by the Windows operating

system, or real tty ports by Linux environments. NPort provides both the basic transmit/receive data functions, as well as RTS, CTS, DTR, DSR, and DCD control signals.

Useful LED Indicators

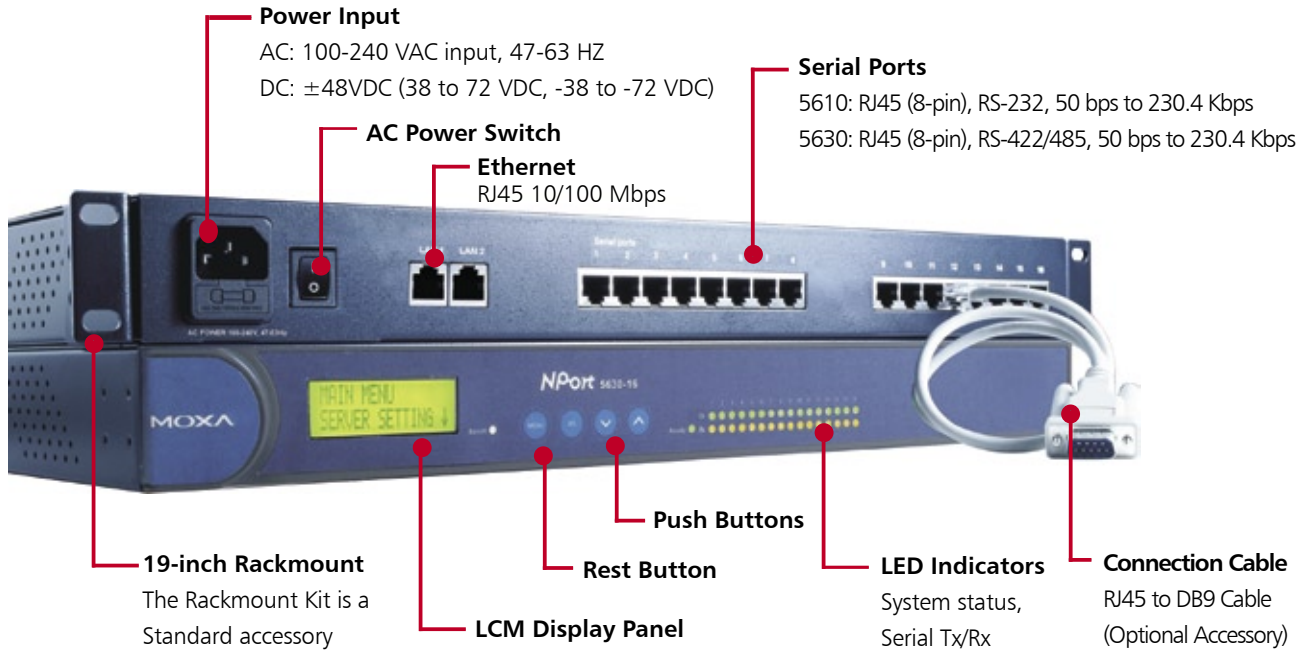
The system LED, Serial Tx/Rx LEDs, and Ethernet LED on NPort help field engineers analyze field problems, and provide a simple way to ease monitoring tasks. NPort 5600's LEDs not

only indicate current system and network status, but also assist field engineers in monitoring the status of attached serial devices.



16/8-Port RS-232 Rackmount Serial Device Servers

Dimensions and Appearance

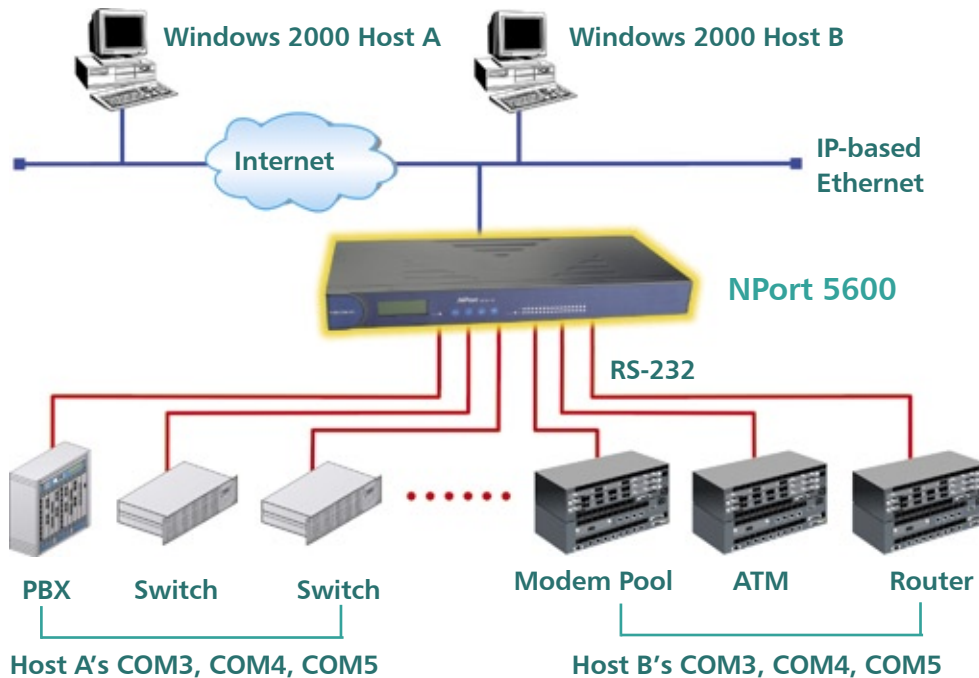


Typical Application

1 NPort 5600 shared by several different host computers

Different host computers can share the same NPort 5600 to control different devices. For example, ports 1, 2, and 3 can be configured to Host A's COM3, COM4, and COM5, and ports 14, 15, and 16 can be configured to Host B's

COM3, COM4, and COM5. By using NPort 5600, you can simultaneously centralize serial device management and distribute the management hosts over the network.



16/8-Port RS-232 Rackmount Serial Device Servers

Specifications

LAN

Ethernet: 10/100 Mbps, 8-pin RJ45
Protection: Built-in 1.5 KV magnetic isolation

NPort 5610 Serial Interface

Interface: RS-232, RJ45 (8-pin)
RS-232: TxD, RxD, RTS, CTS, DTR, DSR, GND, DCD

NPort 5630 Serial Interface

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

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

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

RS-485 Data Direction Control: Patented Automatic Data Direction Control (ADDC™)

Serial Line protection:

15 KV ESD for all signals

Power Line protection:

4 KV Burst (EFT), EN61000-4-4
 2 KV Surge, EN61000-4-5

Built-in HMI

LCM display with four push buttons

Built-in Buzzer

Built-in Real Time Clock

Built-in Watch Dog Timer

Serial Communication

Parameters

Parity: None, Even, Odd, Space, Mark

Data bits: 5, 6, 7, 8

Stop bit: 1, 1.5, 2

Flow control: RTS/CTS, DTR/DSR (NPort 5610 only), XON/XOFF

Speed: 50 bps to 230.4 Kbps Software Features

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

Utilities: NPort Administrator for Windows 95/98/ME/NT/2000/XP/2003, Real COM/TTY drivers, Linux real TTY driver

Configuration: Web browser, telnet console, or Windows utility

Power Requirements

Power Input:

AC: 100 to 240V, 47 to 63 Hz

DC: ±48 VDC (38 to 72 VDC, -38 to -72 VDC)

Power Consumption:

5610-8/16: 200 mA for 100V,
 145 mA for 240V

5610-8/16-48V: 250 mA (at 48V max.)

5630-16: 212 mA for 100V,
 130 mA for 240V

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:

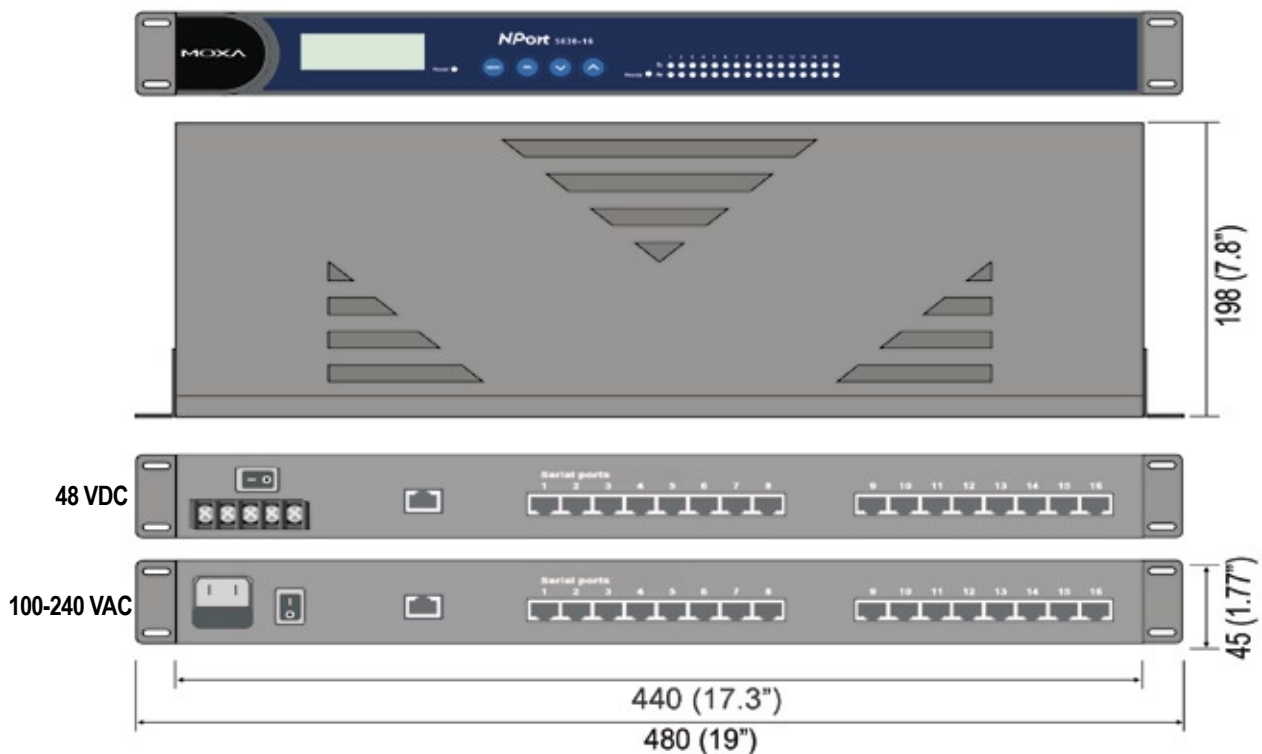
-40 to 85°C (-4 to 167°F), 5 to 95% RH

Regulatory Approvals

EMC: FCC Class A, CE Class A

Safety: UL, CUL, TÜV

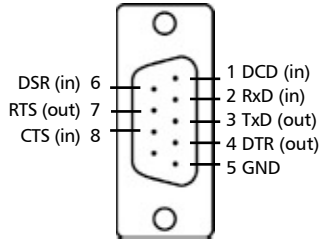
Dimensions



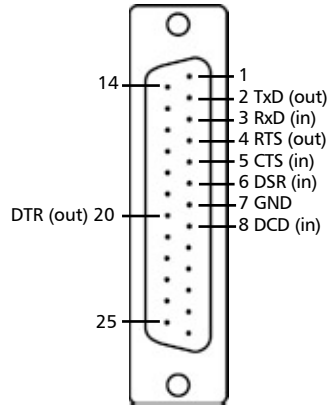
Unit: mm (inch)

Pin Assignment

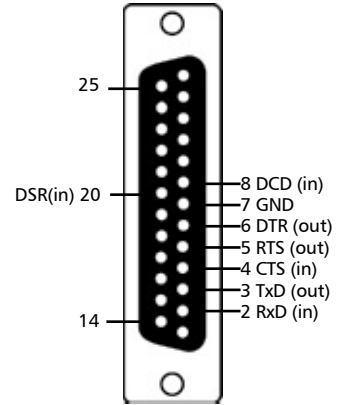
CBL-RJ45M9-150



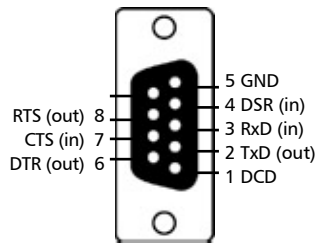
CBL-RJ45M25-150



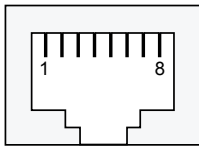
CBL-RJ45F25-150



CBL-RJ45F9-150



RJ45 RS-232 port pin assignment



PIN	RS-232
1	DSR (in)
2	RTS (out)
3	GND
4	TxD (out)

PIN	RS-232
5	RxD (in)
6	DCD (in)
7	CTS (in)
8	DTR (out)

Ordering Information

NPort 5610-16:

16-Port RS-232 Serial Device Server, 100-240 VAC power input

NPort 5610-8:

8-Port RS-232 Serial Device Server, 100-240 VAC power input

NPort 5630-16:

16-Port RS-422/485 Serial Device Server, 100-240 VAC power input

NPort 5630-8:

8-Port RS-422/485 Serial Device Server, 100-240 VAC power input

NPort 5610-16-48V V2:

16-Port RS-232 Serial Device Server, ±48 VDC power input

NPort 5610-8-48V V2:

8-Port RS-232 Serial Device Server, ±48 VDC power input

Above items include:

- 1 serial device server
- Quick Installation Guide
- NPort Document and Software CD-ROM
- Power Cord (included with AC version of the product)
- * RJ45 to DB9 or DB25 serial cable is an optional accessory

Optional Accessories

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

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

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

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