NPort 5600-DT Series

8-port RS-232/422/485 serial device servers



Features and Benefits

- 8 serial ports supporting RS-232/422/485
- · Compact desktop design
- 10/100M auto-sensing Ethernet
- · Easy IP address configuration with LCD panel
- · Configure by Telnet, web browser, or Windows utility
- · Socket modes: TCP server, TCP client, UDP, Real COM
- · SNMP MIB-II for network management

Certifications







Introduction

NPort 5600-8-DT device servers can conveniently and transparently connect 8 serial devices to an Ethernet network, allowing you to network your existing serial devices with only basic configuration. You can both centralize management of your serial devices and distribute management hosts over the network. Since the NPort 5600-8-DT device servers have a smaller form factor compared to our 19-inch models, they are a great choice for applications that need additional serial ports, but for which mounting rails are not available.

Convenient Design for RS-485 Applications

The NPort 5650-8-DT device servers support selectable 1 kilo-ohm and 150 kilo-ohms pull high/low resistors and a 120-ohm terminator. In some critical environments, termination resistors may be needed to prevent the reflection of serial signals. When using termination resistors, it is also important to set the pull high/low resistors correctly so that the electrical signal is not corrupted. Since no set of resistor values is universally compatible with all environments, NPort 5600-8-DT device servers use DIP switches to allow users to adjust termination and pull high/low resistor values manually for each serial port.

Convenient Power Inputs

The NPort 5650-8-DT device servers support both power terminal blocks and power jacks for ease of use and greater flexibility. Users can connect the terminal block directly to a DC power source, or use the power jack to connect to an AC circuit through an adapter.

LED Indicators to Ease Your Maintenance Tasks

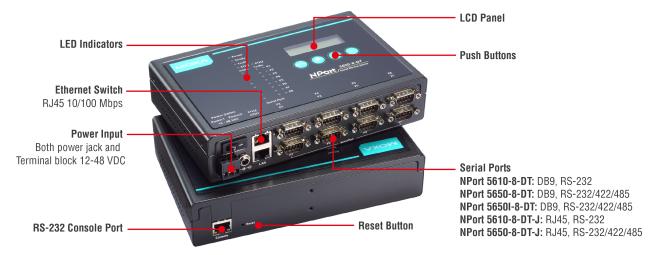
The System LED, Serial Tx/Rx LEDs, and Ethernet LEDs (located on the RJ45 connector) provide a great tool for basic maintenance tasks and help engineers analyze problems in the field. The NPort 5600's LEDs not only indicate current system and network status, but also help field engineers monitor the status of attached serial devices.

Two Ethernet Ports for Convenient Cascade Wiring

The NPort 5600-8-DT device servers come with two Ethernet ports that can be used as Ethernet switch ports. Connect one port to the network or server, and the other port to another Ethernet device. The dual Ethernet ports eliminate the need to connect each device to a separate Ethernet switch, reducing wiring costs.



Appearance



Specifications

| Ethern | ot I | Intor | サコヘム |
|---------|-------|-------|------|
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| 10/100BaseT(X) Ports (RJ45 connector) | 2 |
|---------------------------------------|--|
| Magnetic Isolation Protection | 1.5 kV (built-in) |
| Ethernet Software Features | |
| Configuration Options | Serial Console, Telnet Console, Web Console (HTTP/HTTPS), Windows Utility |
| Management | ARP, BOOTP, DHCP Client, DNS, HTTP, HTTPS, ICMP, IPv4, LLDP, Rtelnet, SMTP, SNMPv1/v2c, TCP/IP, Telnet, UDP |
| Filter | IGMP v1/v2 |
| MIB | RFC1213, RFC1317 |
| Time Management | SNTP |
| Windows Real COM Drivers | Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded |
| Linux Real TTY Drivers | Kernel versions: 2.4.x, 2.6.x, 3.x, 4.x, and 5.x |
| Fixed TTY Drivers | SCO UNIX, SCO OpenServer, SCO UnixWare 7, Sun Solaris 10, QNX 4.25, QNX 6.x, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X, macOS 10.12, macOS 10.13, macOS 10.14, macOS 10.15 |
| Android API | Android 3.1.x and later |
| Serial Interface | |
| Connector | 8-pin RJ45: NPort 5610-8-DT-J/5650-8-DT-J DB9 male: NPort 5610-8-DT models/NPort 5650-8-DT models/NPort 5650I-8-DT models |
| No. of Ports | 8 |
| Serial Standards | NPort 5610-8-DT Models: RS-232 NPort 5650-8-DT Models: RS-232/422/485 |
| Baudrate | Supports standard baudrates (unit=bps): 50, 75, 110, 134, 150, 300, 600, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200, 230.4k, 460.8k, 921.6k |
| Data Bits | 5, 6, 7, 8 |
| Stop Bits | 1, 1.5, 2 |



| e, Even, Odd, Space, Mark /CTS, DTR/DSR, XON/XOFF p-ohm, 150 kilo-ohms phms C® (automatic data direction control) pdels: 2 kV |
|---|
| o-ohm, 150 kilo-ohms ohms C® (automatic data direction control) |
| ohms C® (automatic data direction control) |
| C® (automatic data direction control) |
| |
| odels: 2 kV |
| |
| V |
| 232 (TxD, RxD, GND), 3-pin (19200, n, 8, 1) |
| |
| RxD, RTS, CTS, DTR, DSR, DCD, GND |
| Tx-, Rx+, Rx-, GND |
| Tx-, Rx+, Rx-, GND |
| ı+, Data-, GND |
| |
| rt 5610-8-DT/NPort 5610-8-DT-J/ rt 5610-8-DT-T: mA @ 12 VDC rt 5650-8-DT/NPort 5650-8-DT-J/ rt 5650-8-DT-T: mA @ 12 VDC rt 5650I-8-DT/NPort 5650I-8-DT-T: |
| |
| o 48 VDC |
| ported |
| Power input jack |
| |
| -in WDT |
| -in buzzer and RTC (real-time clock) |
| |
| al |
| x 46 x 125 mm (9.01 x 1.81 x 4.92 in) |
| x 44 x 125 mm (7.76 x 1.73 x 4.92 in) |
| x 53 x 125 mm (7.76 x 2.09 x 4.92 in) |
| |
| |

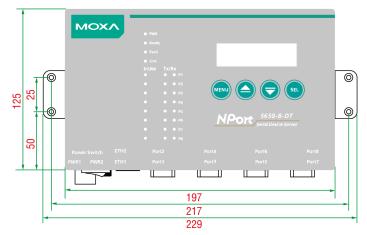


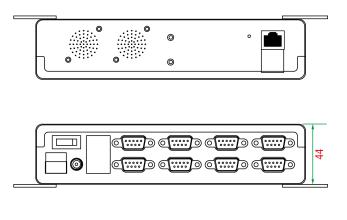
| | NPort 5650I-8-DT-T: 1,410 g (3.11 lb) | |
|--|--|--|
| Installation | Desktop, DIN-rail mounting (with optional kit), Wall mounting (with optional kit) | |
| Interactive Interface | LCD panel display (standard temp. models only) Push buttons for configuration (standard temp. models only) | |
| Environmental Limits | | |
| Operating Temperature | Standard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) | |
| Storage Temperature (package included) | -40 to 75°C (-40 to 167°F) | |
| Ambient Relative Humidity | 5 to 95% (non-condensing) | |
| Standards and Certifications | | |
| EMC | EN 55032/35 | |
| ЕМІ | CISPR 32, FCC Part 15B Class A | |
| EMS | IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 0.5 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 | |
| Safety | UL 60950-1, IEC 62368-1 | |
| Declaration | | |
| Green Product | RoHS, CRoHS, WEEE | |
| MTBF | | |
| Time | 836,374 hrs | |
| Standards | Telcordia (Bellcore) Standard | |
| Warranty | | |
| Warranty Period | 5 years | |
| Details | See www.moxa.com/warranty | |
| Package Contents | | |
| Device | 1 x NPort 5600-DT Series device server | |
| Installation Kit | 1 x wall-mounting kit | |
| Cable | 1 x Ethernet, RJ45 | |
| Power Supply | 1 x power adapter, suitable for your region | |
| Documentation | 1 x quick installation guide 1 x warranty card | |



Dimensions

Unit: mm





Ordering Information

| Model Name | Serial Interface | Serial Interface Connector | Serial Interface Isolation | Operating Temp. | Input Voltage |
|--------------------|------------------|-------------------------------|----------------------------|-----------------|---------------|
| NPort 5610-8-DT | RS-232 | DB9 | - | 0 to 55°C | 12 to 48 VDC |
| NPort 5610-8-DT-T | RS-232 | DB9 | - | -40 to 75°C | 12 to 48 VDC |
| NPort 5610-8-DT-J | RS-232 | 8-pin RJ45 | - | 0 to 55°C | 12 to 48 VDC |
| NPort 5650-8-DT | RS-232/422/485 | DB9 | - | 0 to 55°C | 12 to 48 VDC |
| NPort 5650-8-DT-T | RS-232/422/485 | DB9 | - | -40 to 75°C | 12 to 48 VDC |
| NPort 5650-8-DT-J | RS-232/422/485 | 8-pin RJ45 | - | 0 to 55°C | 12 to 48 VDC |
| NPort 5650I-8-DT | RS-232/422/485 | DB9 | 2 kV | 0 to 55°C | 12 to 48 VDC |
| NPort 5650I-8-DT-T | RS-232/422/485 | DB9 | 2 kV | -40 to 75°C | 12 to 48 VDC |

Accessories (sold separately)

DIN-Rail Mounting Kits

| DK35A | DIN-rail mounting kit, 35 mm |
|---------------------|---|
| Wall-Mounting Kits | |
| WK-35-04 | 2 plates (35 x 44 x 2.5mm) with 6 screws (FTSx6 M3x4mm) |
| Power Adapters | |
| PWR-12300-WPAU-S1 | Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, Australia (AU) plug, 0 to 40°C operating temperature |
| PWR-12300-WPCN-S1 | Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, China (CN) plug, 0 to 40°C operating temperature |
| PWR-12300-WPEU-S1 | Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, Continental Europe (EU) plug, 0 to 40°C operating temperature |
| PWR-12300-WPUK-S1 | Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, United Kingdom (UK) plug, 0 to 40°C operating temperature |
| PWR-12300-WPUSJP-S1 | Locking barrel plug, 12 VDC, 3 A, 100 to 240 VAC, United States/Japan (US/JP) plug, 0 to 40°C operating temperature |

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