NPort 5600 Series

8 and 16-port RS-232/422/485 rackmount serial device servers



Features and Benefits

- Standard 19-inch rackmount size
- Easy IP address configuration with LCD panel (excluding wide-temperature models)
- · Configure by Telnet, web browser, or Windows utility
- Socket modes: TCP server, TCP client, UDP
- SNMP MIB-II for network management
- Universal high-voltage range: 100 to 240 VAC or 88 to 300 VDC
- Popular low-voltage ranges: ±48 VDC (20 to 72 VDC, -20 to -72 VDC)

Certifications



Introduction

With the NPort® 5600 Rackmount Series, you not only protect your current hardware investment, but also allow for future network expansion by centralizing the management of your serial devices and distributing management hosts over the network.

Network Readiness for up to 16 Serial Devices

Only basic configuration is needed with the NPort® 5600 to connect up to 16 serial devices to an Ethernet network.

19-Inch Rackmount Device Server

NPort® 5600 device servers come with Tx/Rx LEDs for the serial ports on the front panel, and 8 or 16 RJ45 serial port connectors on the rear panel. This makes the NPort® 5600 device servers suitable for a standard 19-inch rackmount, allowing you to simplify operational, maintenance, and administrative tasks.

Real COM/TTY Ports

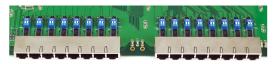
Real COM/TTY drivers are provided to make the serial ports on the NPort® 5600 recognizable as Real COM ports by Windows, or Real TTY ports by Linux. In addition to supporting basic data transmission and reception, the NPort® drivers also support the RTS, CTS, DTR, DSR, and DCD control signals.

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 LEDs not only indicate current system and network status, but they also help field engineers monitor the status of attached serial devices.

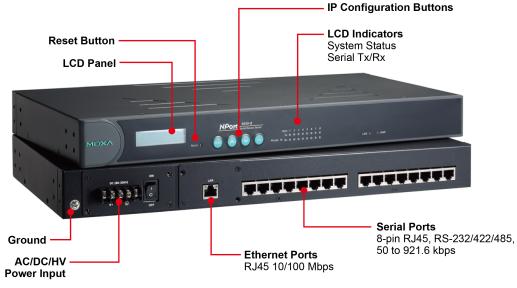
Adjustable Termination and Pull High/Low Resistors

When using termination resistors to prevent serial signal reflection, it is 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 for all environments, the NPort® 5650-8/16 has DIP switches on the bottom panel for setting the termination and pull high/low resistor values.





Appearance



Note: LCD panel and configuration buttons not available with wide-temp. models

Specifications

| 10/100BaseT(X) Ports (RJ45 connector) | 1 | | | | |
|---------------------------------------|---|----------------------------|--------------|--------------|--------------|
| Magnetic Isolation Protection | 1.5 kV (built-in) | 1.5 kV (built-in) | | | |
| Optical Fiber | | 100BaseFX | | | |
| | | | | /ulti-Mode | Single-Mode |
| | Fibor | Fiber Cable Type | | 50/125 µm | G.652 |
| | Fiber | | | 800 MHz x km | 6.652 |
| | Туріс | Typical Distance | | 5 km | 40 km |
| | | Typical (nm) | 1300 | | 1310 |
| | Wavelength | TX Range (nm) | 1: | 260 to 1360 | 1280 to 1340 |
| | | RX Range (nm) | 1100 to 1600 | | 1100 to 1600 |
| | | TX Range (dBm) | | -10 to -20 | 0 to -5 |
| | | RX Range (dBm) | | -3 to -32 | -3 to -34 |
| | Optical Power | Link Budget (dB) | | 12 | 29 |
| | | Dispersion Penalty (dB) | | 3 | 1 |
| | Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power. Note: Compute the "typical distance" of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB). | | | | |
| Ethernet Software Features | | | | | |
| Configuration Options | Telnet Console | | | | |

Web Console (HTTP/HTTPS) Windows Utility

ARP BOOTP DHCP Client DNS



Management

| | HTTP HTTPS ICMP IPv4 LLDP RFC2217 RteInet PPP SLIP SMTP SMMPv1/v2c TCP/IP TeInet UDP |
|-----------------------------|--|
| Filter | IGMP v1/v2c |
| Windows Real COM Drivers | Windows 11/10/8.1/8/7/Vista/XP/ME/98/95 Windows Server 2022/2019/2016/2012 R2/2012/2008 R2/2008/2003 Windows Embedded CE 6.0/5.0, Windows XP Embedded |
| Linux Real TTY Drivers | Kernel versions 6.x, 5.x, 4.x, 3.x, 2.6.x, and 2.4.x |
| Fixed TTY Drivers | macOS Versions: 11.x, 10.12 to 10.15 |
| Arm®-based Platform Support | Linux Kernel 5.x/4.x |
| Virtual Machine | VMWare ESXi (Windows 11/10) VMware Fusion (Windows on macOS 10.12 to 11.x) Parallels Desktop (Windows on macOS 10.12 to 11.x) |
| Android API | Android 3.1.x and later |
| Time Management | SNTP |
| Security Functions | |
| Authentication | Local database |
| Encryption | HTTPS AES-128 RSA-1024 SHA-1 SHA-256 |
| Security Protocols | HTTPS (TLS 1.2) SNMPv3 |
| Serial Interface | |
| Connector | 8-pin RJ45 |
| No. of Ports | 8 or 16 ports |
| Serial Standards | NPort 5610 Models: RS-232 NPort 5630 Models: RS-422, RS-485 NPort 5650 Models: RS-232, RS-422, RS-485 |
| Operation Modes | Disabled Ethernet Modem Pair Connection Real COM Reverse Telnet RFC2217 TCP Client TCP Server UDP |
| 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 |
| Parity | None, Even, Odd, Space, Mark |
| Flow Control | None RTS/CTS (RS-232 only) DTR/DSR (RS-232 only) XON/XOFF |
| Pull High/Low Resistor for RS-485 | 1 kilo-ohm, 150 kilo-ohms |
| Terminator for RS-485 | 120 ohms |
| RS-485 Data Direction Control | Automatic Data Direction Control (ADDC) |
| Serial Signals | |
| RS-232 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND |
| RS-422 | Tx+, Tx-, Rx+, Rx-, GND |
| RS-485-4w | Tx+, Tx-, Rx+, Rx-, GND |
| RS-485-2w | Data+, Data-, GND |
| Power Parameters | |
| Input Current | NPort 5610-8-48V/16-48V: 135 mA @ 48 VDC NPort 5650-8-HV-T/16-HV-T: 152 mA @ 88 VDC NPort 5610-8/16: 141 mA @ 100 VAC NPort 5630-8/16: 152 mA @ 100 VAC NPort 5650-8/8-T/16/16-T: 158 mA @ 100 VAC NPort 5650-8-M-SC/16-M-SC: 174 mA @ 100 VAC NPort 5650-8-S-SC/16-S-SC: 164 mA @ 100 VAC |
| Input Voltage | HV Models: 88 to 300 VDC AC Models: 100 to 240 VAC, 47 to 63 Hz DC Models: ±48 VDC, 20 to 72 VDC, -20 to -72 VDC |
| Reliability | |
| Automatic Reboot Trigger | Built-in WDT |
| Physical Characteristics | |
| Housing | Metal |
| Installation | 19-inch rack mounting |
| Dimensions (with ears) | 480 x 45 x 198 mm (18.90 x 1.77 x 7.80 in) |
| Dimensions (without ears) | 440 x 45 x 198 mm (17.32 x 1.77 x 7.80 in) |
| Weight | NPort 5650-16-HV-T: 3,820 g (8.42 lb) NPort 5650-8-HV-T: 3,720 g (8.20 lb) NPort 5610-16-48V: 3,260 g (7.19 lb) NPort 5610-8-48V: 3,160 g (6.97 lb) NPort 5630-16: 2,560 g (5.64 lb) NPort 5630-8/5650-16/5650-16-T: 2,510 g (5.53 lb) NPort 5650-16-S-SC: 2,500 g (5.51 lb) NPort 5610-16: 2,490 g (5.49 lb) NPort 5650-8-S-SC/5650-16-M-SC: 2,440 g (5.38 lb) NPort 5650-8-S-SC: 2,380 g (5.25 lb) NPort 5650-8-M-SC: 2,380 g (5.25 lb) NPort 5650-8/5650-8-T: 2,310 g (5.09 lb) |
| Interactive Interface | LCD panel display (standard temp. models only) Push buttons for configuration (standard temp. models only) |



| Operating Temperature Standard Models: 10 607 (23 to 140°F) With Temp. Models: -40 to 56 (24 to 10 FFT) High-voltage Wide Temp. Models: -40 to 50 (-40 to 186°F) Storage Temperature (package included) Standard Models: -20 to 70 (-4 to 158°F) High-voltage Wide Temp. Models: -40 to 50 (-40 to 158°F) Ambient Relative Humidhy 5 to 95% (non-condensing) Standards and Cartifications EM 5032/35 EMC EN 5032/35 EMS EN 50532/35 EMS NPort 5500-97/15 Models: IEC 81000-42 ESD: Contact: 8 N/Ar: 15 N/ IEC 81000-43 ESD: Contact: 8 N/Ar: 15 N/ IEC 81000-43 ESD: Contact: 8 N/Ar: 15 N/ IEC 81000-45 ESD: Sol Mix to 1 10k: 10 Vm IEC 81000-45 ESD: Sol Mix to 1 10k: 10 Vm IEC 81000-45 ESD: ESD: ESD: ESD: 10 VH to 1 0k: 10 Vm IEC 81000-45 ESD: ESD: ESD: ESD: 10 VH to 1 0k: 10 Vm IEC 81000-45 ESD: ESD: ESD: 10 VH to 1 0k: 3 Vm IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Signal: 3 V/m IEC 81000-45 ESD: 10 VH to 1 0k: 3 Vm; Si | Environmental Limits | |
|--|--|---|
| Wide Temp. Models: -40 to 75°C (-40 to 157°F) High-voltage Wide Temp. Models: -40 to 55°C (-40 to 158°F)Ambient Relative Humidity5to 95% (non-condensing)Standards and CertificationsEMEMCEN 55032/35EMCISPR 32, FOC Part 15B Class AEMSNPort 5660-9/16 Models: IEC 61000-42 ESD. Contact. B AV, Air: 15 AV IEC 61000-42 ESD. Contact. B AV, Air: 15 AV IEC 61000-42 ESD. Contact. B AV, Air: 15 AV IEC 61000-43 ESD. Contact. B AV, Air: 15 AV IEC 61000-44 EFT: Power-4 AV: Signal: 2A VI IEC 61000-44 EFT: Power-4 AV: Signal: 2A VI IEC 61000-44 EFT: FOWER-4 AV, Signal: 3 V/m IEC 61000-44 EFT: Power-4 AV, Signal: 2A VI IEC 61000-45 ESD. Contact 4 AV, Air: B VI IEC 61000-44 EFT: Power-4 AV, Signal: 2A VI IEC 61000-45 ESD. Ontact A VI, Air: B VI IEC 61000-44 EFT: Power-4 AV, Signal: 2A VI IEC 61000-44 EFT: Power-4 AV, Signal: 2A VI IEC 61000-45 ESD. Ontact A VI, Air: B VI IEC 61000-44 EFT: Power-4 AV, Signal: 2A VI IEC 61000-44 EFT: Power-4 AV, Signal: A VI/m IEC 61000-44 EFT: Power-4 AV, Signal: A VI/m I | Operating Temperature | Wide Temp. Models: -40 to 75°C (-40 to 167°F) |
| Standards and Certifications ENS 5032/35 EMC ENS 5032/35 EMS CISPR 32, FCC Part 15B Class A EMS NPort 6560-3f16 Models: IEC 61000-42 ESD: Contact: 8 W/ Air: 15 W IEC 61000-42 SB: 80 MHz: 10 GHz: 10 W/m IEC 61000-43 SB: 80 MHz: 10 GHz: 10 W/m IEC 61000-43 SB: 80 MHz: 10 GHz: 10 W/m IEC 61000-41 EMS NPort 6560-3f16-HV Models: IEC 61000-41 ET: Power. 4W; Signal: 2W IEC 61000-43 IEC 61000-41 GE: 150 KHz to 80 MHz: 3 W/m; Signal: 3 W/m IEC 61000-43 IEC 61000-41 ET: Power. 4W; Signal: 2W IEC 61000-44 IEC 61000-44 ET: Power. 4W; Signal: 2W IEC 61000-44 IEC 61000-45 Safery UL 62360-1 Medical NPort 6510-800 MHz: 3 W/m; Signal: 3 W/m IEC 61000-4-8 Signal: 2 W IEC 61000-4-8 Safery UL 62360-1 Medical NPort 6510-800 Mbrz: 3 W/m; Signal: 3 W/m IEC 61000-4-8 Signal: 3 W/m; Signal: 3 W/m Safery UL 62360-1 Medical NPort 6510-800 Mbrz: 3 W/m; Signal: 3 W/m Safery UL 62360-1 Safery NPort 6510-800 Mbrz: 3 W/m; Signal: 3 W/m Safery NPort 6510-800 Mbrz: 3 W/m; Signal: 3 W/m NPort 6510-800 Mbrz: 3 W/m; Signal: 3 W/m NPort 6500 Nbrz MrDif Safery | Storage Temperature (package included) | Wide Temp. Models: -40 to 75°C (-40 to 167°F) |
| EMC EN 5003/35 EM CISPR 32, FCC Part 15B Class A EMS NPort 550-8/16 Models: IEC 61000-42 ESD. Contacts B KY, Air: 15 KY IEC 61000-42 ESD. Contacts B KY, Air: 15 KY IEC 61000-42 ESD. Contacts B KY, Air: 15 KY IEC 61000-43 FS: 80 MHz to 16 Ktz 10 V/m IEC 61000-44 EST: 150 kHz to 80 MHz: 3 V/m; Signat: 3 V/m IEC 61000-42 ESD. Contact: 4 KY, Air: 8 KY IEC 61000-42 ESD. MHz: 3 V/m; Signat: 3 V/m IEC 61000-42 ESD. Contact: 4 KY, Air: 8 KY IEC 61000-43 FS: 80 MHz to 16 Ktz 3 V/m; Signat: 3 V/m IEC 61000-45 Safety UL 62368-1 Medical EN 5011: 207-A2: 2007 Class A (Group 1) compliant EN 60001-1-2: 2007 compliant MTEF Time Time NPort 5810-8: 803.000 hrs NPort 5810-8: 805.026 hrs NPort 5850-8: HYZ, 716, 468 hrs NPort 5850-16: HYZ, 196, 608 hrs Standards HY Models: Telcordia (Belicore) Standard TR/SR Al Other Models: MIL-HDBK-217F Warranty File Sea WWW.moxa.com/warranty Package Contents Sea www.moxa.com/warranty | Ambient Relative Humidity | 5 to 95% (non-condensing) |
| EMI CISPR 32, FCC Part 15B Class A EMS NPort 5650-8/16 Models: IE 05 1000 -4.2 ESD: Contact: 8 W; Alr: 15 W IE 05 1000 -4.2 ESD: Contact: 8 W; Alr: 15 W IE 05 1000 -4.4 EFT: Power: 2.5 W; Signal: 1 W IE 05 1000 -4.4 EFT: Power: 2.5 W; Signal: 3 Win IE 05 1000 -4.4 EFT: Power: 2.5 W; Signal: 3 Win IE 05 1000 -4.4 EFT: Power: 2.5 W; Signal: 3 Win IE 05 1000 -4.4 EFT: Power: 2.5 W; Signal: 3 Win IE 05 1000 -4.4 EFT: Power: 2.5 W; Signal: 3 Win IE 05 1000 -4.4 EFT: Power: 2.4 W; IE 05 1000 -4.4 EFT: S0.0 H; IE 05 1000 -4.5 Solore: 3.0 H; 2.0 W; IE 05 1000 -4.5 Solore: 3.0 H; IE 05 1000 -4.5 Solore: 3.0 H; IE 05 1000 -4.5 Sol | Standards and Certifications | |
| EMS NPort 5500-8/16 Models: EMS Ric 6 1100-4-26 ESD: Contact: 8 W; Air 15 KV EG 6 1100-4-26 ESD: Contact: 8 W; Air 15 KV EEG 6 1100-4-46 ESD: Contact: 8 W; Air 15 KV EEG 6 1000-4-46 ESD: Contact: 8 W; Air 15 KV EEG 6 1000-4-46 ESD: Contact: 8 W; Air 15 KV EEG 6 1000-4-46 ESD: Contact: 8 W; Air 15 KV EEG 6 1000-4-46 ESD: Contact: 8 W; Air 8 KV EEG 6 1000-4-26 ESD: Contact: 8 W; Air 8 KV EEG 6 1000-4-26 ESD: Contact: 8 W; Air 8 KV EEG 6 1000-4-46 ESD: Power: 2 KV EEG 6 1000-4-46 ESD: Power: 2 KV EEG 6 1000-4-46 ESD: Power: 2 KV EEG 6 1000-4-46 ESD: Power: 2 KV EEG 6 1000-4-46 ESD: Power: 2 KV EEG 6 1000-4-46 ESD: Power: 2 KV EEG 6 1000-4-46 ESD: Power: 2 KV EEG 6 1000-4-46 ESD: Power: 2 KV Medical EN 55011: 2007-A2: 2007 Class A (Group 1) compliant ED 6 1000-4-48 EN 55011: 2007-A2: 2007 Class A (Group 1) compliant MTBF F Time NPort 5510-8-430: 302,000 hrs NPort 5500-8-1777,04 MeB hrs NPort 5510-8-430: 302,000 hrs NPort 5500-8-177,04 MeB hrs NPort 5510-8-430: 302,000 hrs NPort 5500-8-177,04 MeB hrs NPort 5500-8-177,01 Mrs NPort 5500-8-177,04 MeB hrs NPort 5500-16-400: 630,000 hrs NPort 5500-16-4-30: 100,000 hrs | EMC | EN 55032/35 |
| IEC 61000-4-2 SD: Contact: 8 W: Air. 16 kW IEC 61000-4-4 BFT: Power.4 kW: Signal: 2 W IEC 61000-4-6 Burge Power.2 SA: W: Signal: 3 V/m IEC 61000-4-6 IFT: Power.4 kW: Signal: 3 V/m; Signal: 3 V/m IEC 61000-4-6 IEC Fower.2 SA: W: Signal: 3 V/m; Signal: 3 V/m IEC 61000-4-2 EDS: Contact: 4 kV; Air: 8 kV IEC 61000-4-2 EDS: Contact: 4 kV; Air: 8 kV IEC 61000-4-2 EDS: Contact: 4 kV; Air: 8 kV IEC 61000-4-2 EDS: Contact: 4 kV; Air: 8 kV IEC 61000-4-2 EDS: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m; Signal: 3 V/m IEC 61000-4-3 EDS: 000 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-5 EDS: Power: 2 AV IEC 61000-4-6 EDS: Power: 2 AV IEC 61000-4-5 EDS: Power: 2 AV | EMI | CISPR 32, FCC Part 15B Class A |
| MedicalEN 55011: 2007+A2: 2007 Class A (Group 1) compliant EN 60601-1-2: 2007 compliantMTBFTimeNPort 5610-8: 903,009 hrs NPort 5600-8: T.776,469 hrs NPort 5650-8: T.776,409 hrs NPort 5650-18: T.733,046 hrs NPort 5650-18: T.533,046 hrs NPort 5650-18: T.533,046 hrs NPort 5650-18: T.533,046 hrs NPort 5650-18: T.533,046 hrs NPort 5650-18: T.510,101 hrs NPort 5650-18: T.510,019 hrs NPORT 560,018 hr | EMS | IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2.5 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 IEC 61000-4-11 NPort 5650-8/16-HV Models: IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m |
| MTBF Time NPort 5610-8: 903,009 hrs NPort 5610-8: 48V: 892,692 hrs NPort 5610-8: 48V: 892,692 hrs NPort 560-8: 844,009 hrs NPort 560-8: 776,499 hrs NPort 560-8: 776,492 hrs NPort 560-8: 776,492 hrs NPort 560-8: 754,927 hrs NPort 560-8: N-SC/8-S-SC: 738,291 hrs NPort 5610-16: 480: 683,529 hrs NPort 5610-16: 480: 683,529 hrs NPort 5610-16: 680,154 hrs NPort 560-16: 525,107 hrs NPort 5650-16: T-: 533,046 hrs NPort 5650-16: NSC/16: SC: 517,019 hrs NPort 5650-16: NSC/16: SC: SC: ST/2019 hrs NPort 5650-16: NSC/16: SSC: SC: ST/2019 hrs NPORT 5650-16: NSC/16: SSC: SC: ST/2019 hrs NPORT 5650-16: NSC/16: SSC: SSC: ST/2019 hrs </td <td>Safety</td> <td>UL 62368-1</td> | Safety | UL 62368-1 |
| TimeNPort 5610-8: 903,009 hrs NPort 5610-8-48V: 892,692 hrs NPort 5630-8: 844,009 hrs NPort 5650-8: 776,469 hrs NPort 5650-8: 754,927 hrs NPort 5650-16-4W: 693,529 hrs NPort 5650-16-4W: 693,529 hrs NPort 5650-16-1: 533,046 hrs NPort 5650-16-1: 533,046 hrs NPort 5650-16-1: 525,107 hrs NPort 560-16-1: 525,107 hrs NPort 560-16-1: 525,107 hrs NPort 560-16-1: 525,107 hrs NPort 5 | Medical | |
| NPort 5610-8-48V: 892,692 hrs NPort 5630-8: 844,009 hrs NPort 5650-8-T: 776,469 hrs NPort 5650-8-T: 776,469 hrs NPort 5650-8-T: 776,469 hrs NPort 5650-8-H-SC/8-S-SC: 738,291 hrs NPort 5650-8-HV: 715,168 hrs NPort 5610-16-48V: 893,529 hrs NPort 5610-16: 680,154 hrs NPort 5610-16: 680,154 hrs NPort 5610-16: 680,154 hrs NPort 5610-16: 680,154 hrs NPort 5650-16: 512,107 hrs NPort 5650-16: 512,107 hrs NPort 5650-16: 512,107 hrs NPort 5650-16-T: 533,046 hrs NPort 5650-16-T: 533,046 hrs NPort 5650-16-T: 533,046 hrs NPort 5650-16-T: 503,046 hrs NPort 5650-16-T: 503,046 hrs NPort 5650-16-T: 503,046 hrs NPort 5650-16-T: 506,093 hrsStandardsHV Models: Telcordia (Bellcore) Standard TR/SR All Other Models: MIL-HDBK-217FWarrantySee www.moxa.com/warrantyPackage ContentsSee www.moxa.com/warranty | МТВF | |
| All Other Models: MIL-HDBK-217F Warranty Warranty Period 5 years Details See www.moxa.com/warranty Package Contents Years | Time | NPort 5610-8-48V: 892,692 hrs NPort 5630-8: 844,009 hrs NPort 5650-8-T: 776,469 hrs NPort 5650-8: 754,927 hrs NPort 5650-8-M-SC/8-S-SC: 738,291 hrs NPort 5650-8-HV-T: 716,168 hrs NPort 5610-16-48V: 693,529 hrs NPort 5610-16: 680,154 hrs NPort 5610-16: 618,263 hrs NPort 5650-16: 525,107 hrs NPort 5650-16: 525,107 hrs NPort 5650-16-T: 533,046 hrs NPort 5650-16-M-SC/16-S-SC: 517,019 hrs |
| Warranty Period 5 years Details See www.moxa.com/warranty Package Contents Years | Standards | |
| Details See www.moxa.com/warranty Package Contents Fackage Contents | Warranty | |
| Package Contents | Warranty Period | 5 years |
| | | See www.moxa.com/warranty |
| Device 1 x NPort 5600 Series device server | Details | - |
| | | |

Installation Kit



1 x rack-mounting kit

Cable

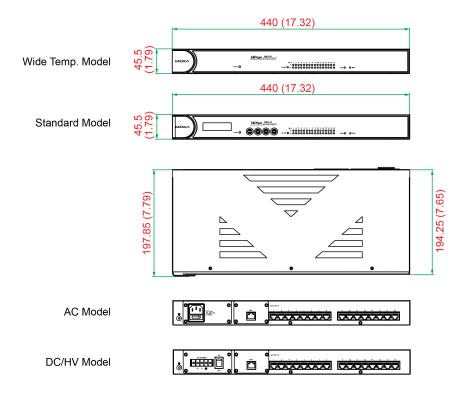
1 x power cord, suitable for your region (AC models)

1 x quick installation guide 1 x warranty card

TX wananty card

Dimensions

Unit: mm (inch)



Ordering Information

| Model Name | Ethernet Interface Connector | Serial Interface | No. of Serial Ports | Operating Temp. | Input Voltage |
|--------------------|---------------------------------|------------------|---------------------|-----------------|---------------|
| NPort 5610-8 | 8-pin RJ45 | RS-232 | 8 | 0 to 60°C | 100-240 VAC |
| NPort 5610-8-48V | 8-pin RJ45 | RS-232 | 8 | 0 to 60°C | ±48 VDC |
| NPort 5630-8 | 8-pin RJ45 | RS-422/485 | 8 | 0 to 60°C | 100-240 VAC |
| NPort 5610-16 | 8-pin RJ45 | RS-232 | 16 | 0 to 60°C | 100-240 VAC |
| NPort 5610-16-48V | 8-pin RJ45 | RS-232 | 16 | 0 to 60°C | ±48 VDC |
| NPort 5630-16 | 8-pin RJ45 | RS-422/485 | 16 | 0 to 60°C | 100-240 VAC |
| NPort 5650-8 | 8-pin RJ45 | RS-232/422/485 | 8 | 0 to 60°C | 100-240 VAC |
| NPort 5650-8-M-SC | Multi-mode fiber SC | RS-232/422/485 | 8 | 0 to 60°C | 100-240 VAC |
| NPort 5650-8-S-SC | Single-mode fiber SC | RS-232/422/485 | 8 | 0 to 60°C | 100-240 VAC |
| NPort 5650-8-T | 8-pin RJ45 | RS-232/422/485 | 8 | -40 to 75°C | 100-240 VAC |
| NPort 5650-8-HV-T | 8-pin RJ45 | RS-232/422/485 | 8 | -40 to 85°C | 88-300 VDC |
| NPort 5650-16 | 8-pin RJ45 | RS-232/422/485 | 16 | 0 to 60°C | 100-240 VAC |
| NPort 5650-16-M-SC | Multi-mode fiber SC | RS-232/422/485 | 16 | 0 to 60°C | 100-240 VAC |
| NPort 5650-16-S-SC | Single-mode fiber SC | RS-232/422/485 | 16 | 0 to 60°C | 100-240 VAC |



| Model Name | Ethernet Interface Connector | Serial Interface | No. of Serial Ports | Operating Temp. | Input Voltage |
|--------------------|---------------------------------|------------------|---------------------|-----------------|---------------|
| NPort 5650-16-T | 8-pin RJ45 | RS-232/422/485 | 16 | -40 to 75°C | 100-240 VAC |
| NPort 5650-16-HV-T | 8-pin RJ45 | RS-232/422/485 | 16 | -40 to 85°C | 88-300 VDC |

Accessories (sold separately)

| Cables | |
|--------------------|--|
| CBL-RJ45F25-150 | 8-pin RJ45 to DB25 female serial cable, 1.5 m |
| CBL-RJ45F9-150 | 8-pin RJ45 to DB9 female serial cable, 1.5m |
| CBL-RJ45M9-150 | 8-pin RJ45 to DB9 male serial cable, 1.5m |
| CBL-RJ45SF9-150 | 8-pin RJ45 to DB9 female serial cable with shielding, 1.5m |
| CBL-RJ45SF25-150 | 8-pin RJ45 to DB25 female serial cable with shielding, 1.5m |
| CBL-RJ45SM25-150 | 8-pin RJ45 to DB25 male serial cable with shielding, 1.5m |
| CBL-RJ45SM9-150 | 8-pin RJ45 to DB9 male serial cable with shielding, 1.5m |
| CBL-F9M9-150 | DB9 female to DB9 male serial cable, 1.5 m |
| CBL-F9M9-20 | DB9 female to DB9 male serial cable, 20 cm |
| CBL-RJ458P-100 | 8-pin RJ45 CAT5 Ethernet cable, 1 m |
| Connectors | |
| ADP-RJ458P-DB9F | DB9 female to RJ45 connector |
| ADP-RJ458P-DB9M | RJ45 to DB9 male connector |
| Power Cords | |
| PWC-C13AU-3B-183 | Power cord with Australian (AU) plug, 1.83 m |
| PWC-C13CN-3B-183 | Power cord with three-prong China (CN) plug, 1.83 m |
| PWC-C13EU-3B-183 | Power cord with Continental Europe (EU) plug, 1.83 m |
| PWC-C13JP-3B-183 | Power cord with Japan (JP) plug, 7A/125V, 1.83 m |
| PWC-C13UK-3B-183 | Power cord with United Kingdom (UK) plug, 1.83 m |
| PWC-C13US-3B-183 | Power cord with United States (US) plug, 1.83 m |
| Rack-Mounting Kits | |
| WK-45-01 | Rack-mounting kit, 2 L-shaped plates, 8 screws, 45 x 57 x 2.5 mm |

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