

# NPort 6400/6600 Series

4/8/16/32-port RS-232/422/485 secure terminal servers



## Features and Benefits

- LCD panel for easy IP address configuration (standard temp. models)
- Secure operation modes for Real COM, TCP Server, TCP Client, Pair Connection, Terminal, and Reverse Terminal
- Nonstandard baudrates supported with high precision
- Port buffers for storing serial data when the Ethernet is offline
- Supports IPv6
- Ethernet redundancy (STP/RSTP/Turbo Ring) with network module
- Generic serial commands supported in Command-by-Command mode
- Security features based on IEC 62443

## Certifications



## Introduction

The NPort® 6000 is a terminal server that uses the TLS and SSH protocols to transmit encrypted serial data over Ethernet. Up to 32 serial devices of any type can be connected to the NPort® 6000, using the same IP address. The Ethernet port can be configured for a normal or secure TCP/IP connection. The NPort® 6000 secure device servers are the right choice for applications that use large numbers of serial devices packed into a small space. Security breaches are intolerable and the NPort® 6000 Series ensures data transmission integrity with support for AES encryption algorithm. Serial devices of any type can be connected to the NPort® 6000, and each serial port on the NPort® 6000 can be configured independently for RS-232, RS-422, or RS-485 transmission.

## No Data Loss If Ethernet Connection Fails

The NPort® 6000 is a reliable device server that provides users with secure serial-to-Ethernet data transmission and a customer-oriented hardware design. If the Ethernet connection fails, the NPort® 6000 will queue all serial data in its internal 64 KB port buffer. When the Ethernet connection is re-established, the NPort® 6000 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.

## LCD Panel Makes Configuration Easy

The NPort® 6600 has a built-in LCD panel for configuration. The panel displays the server name, serial number, and IP address, and any of the device server's configuration parameters, such as IP address, netmask, and gateway address, can be updated easily and quickly.

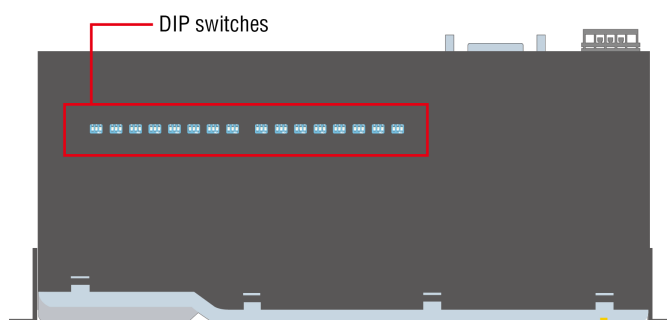
Note: The LCD panel is only available with standard-temperature models.

## Adjustable Resistor Values for RS-485 Communication

The NPort® 6600 provides adjustable termination, pull high, and pull low resistors for RS-485 communication. In some critical environments, termination resistors may be needed to prevent the reflection of serial signals, and the pull high and pull low resistors may need adjusting to maintain the integrity of the electrical signal. Since no set of resistor values works for every environment, the NPort® 6600 allows manual adjustment of the resistor values for each serial port using built-in DIP switches.



Note: The LCD panel is only available with standard temperature models.



## Specifications

| Memory                                                                                                                                                                                                                                                                                              |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
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| SD Slot                                                                                                                                                                                                                                                                                             |                         | Up to 32 GB (SD 2.0 compatible)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Input/Output Interface                                                                                                                                                                                                                                                                              |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Alarm Contact Channels                                                                                                                                                                                                                                                                              |                         | Resistive load: 1 A @ 24 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Ethernet Interface                                                                                                                                                                                                                                                                                  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| 10/100BaseT(X) Ports (RJ45 connector)                                                                                                                                                                                                                                                               |                         | 1<br>Auto MDI/MDI-X connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Magnetic Isolation Protection                                                                                                                                                                                                                                                                       |                         | 1.5 kV (built-in)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Compatible Modules                                                                                                                                                                                                                                                                                  |                         | NM Series expansion modules for optional extension of RJ45 and fiber Ethernet ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Optical Fiber                                                                                                                                                                                                                                                                                       |                         | <table><tr><th colspan="2" rowspan="2"></th><th colspan="2">100BaseFX</th></tr><tr><th>Multi-Mode</th><th>Single-Mode</th></tr><tr><th rowspan="2">Fiber Cable Type</th><th rowspan="2">OM1</th><th>50/125 μm</th><th rowspan="2">G.652</th></tr><tr><th>800 MHz x km</th></tr><tr><th colspan="2">Typical Distance</th><td>4 km</td><td>5 km</td><td>40 km</td></tr><tr><th rowspan="3">Wavelength</th><th>Typical (nm)</th><td colspan="2">1300</td><td>1310</td></tr><tr><th>TX Range (nm)</th><td colspan="2">1260 to 1360</td><td>1280 to 1340</td></tr><tr><th>RX Range (nm)</th><td colspan="2">1100 to 1600</td><td>1100 to 1600</td></tr><tr><th rowspan="4">Optical Power</th><th>TX Range (dBm)</th><td colspan="2">-10 to -20</td><td>0 to -5</td></tr><tr><th>RX Range (dBm)</th><td colspan="2">-3 to -32</td><td>-3 to -34</td></tr><tr><th>Link Budget (dB)</th><td colspan="2">12</td><td>29</td></tr><tr><th>Dispersion Penalty (dB)</th><td colspan="2">3</td><td>1</td></tr><tr><td colspan="5">Note: When connecting a single-mode fiber transceiver, we recommend using an attenuator to prevent damage caused by excessive optical power.<br/>Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) &gt; dispersion penalty (dB) + total link loss (dB).</td></tr></table> |             |              |  |  | 100BaseFX |  | Multi-Mode | Single-Mode | Fiber Cable Type | OM1 | 50/125 μm | G.652 | 800 MHz x km | Typical Distance |  | 4 km | 5 km | 40 km | Wavelength | Typical (nm) | 1300 |  | 1310 | TX Range (nm) | 1260 to 1360 |  | 1280 to 1340 | RX Range (nm) | 1100 to 1600 |  | 1100 to 1600 | Optical Power | TX Range (dBm) | -10 to -20 |  | 0 to -5 | RX Range (dBm) | -3 to -32 |  | -3 to -34 | 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.<br>Note: Compute the “typical distance” of a specific fiber transceiver as follows: Link budget (dB) > dispersion penalty (dB) + total link loss (dB). |  |  |  |  |
|                                                                                                                                                                                                                                                                                                     |                         | 100BaseFX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
|                                                                                                                                                                                                                                                                                                     |                         | Multi-Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Single-Mode |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Fiber Cable Type                                                                                                                                                                                                                                                                                    | OM1                     | 50/125 μm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | G.652       |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
|                                                                                                                                                                                                                                                                                                     |                         | 800 MHz x km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Typical Distance                                                                                                                                                                                                                                                                                    |                         | 4 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5 km        | 40 km        |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Wavelength                                                                                                                                                                                                                                                                                          | Typical (nm)            | 1300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | 1310         |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
|                                                                                                                                                                                                                                                                                                     | TX Range (nm)           | 1260 to 1360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 1280 to 1340 |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
|                                                                                                                                                                                                                                                                                                     | RX Range (nm)           | 1100 to 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 1100 to 1600 |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Optical Power                                                                                                                                                                                                                                                                                       | TX Range (dBm)          | -10 to -20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 0 to -5      |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
|                                                                                                                                                                                                                                                                                                     | RX Range (dBm)          | -3 to -32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | -3 to -34    |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
|                                                                                                                                                                                                                                                                                                     | 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.<br>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                                                                                                                                                                                                                                                                               |                         | Web Console (HTTP/HTTPS)<br>Windows Utility<br>Device Search Utility (DSU)<br>MCC Tool<br>Serial Console<br>Telnet/SSH Console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |
| Management                                                                                                                                                                                                                                                                                          |                         | ARP<br>BOOTP<br>DHCP Client<br>DNS<br>HTTP<br>ICMP<br>IPv4/IPv6<br>LLDP<br>PPPOE<br>SMTP<br>SNMPv1/v2c/v3<br>SNTP<br>TCP/IP<br>Telnet<br>UDP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |              |  |  |           |  |            |             |                  |     |           |       |              |                  |  |      |      |       |            |              |      |  |      |               |              |  |              |               |              |  |              |               |                |            |  |         |                |           |  |           |                  |    |  |    |                         |   |  |   |                                                                                                                                                                                                                                                                                                     |  |  |  |  |

|                             |                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Windows Real COM Drivers    | Windows 11/10/8.1/8/7/Vista/XP/ME/98/95<br>Windows Server 2022/2019/2016/2012 R2/2012/2008 R2/2008/2003<br>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<br>SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6.x, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X          |
| Arm®-based Platform Support | Linux Kernel 5.x/4.x                                                                                                                                        |
| Virtual Machine             | VMWare ESXi (Windows 11/10)<br>VMware Fusion (Windows on macOS 10.12 to 11.x)<br>Parallels Desktop (Windows on macOS 10.12 to 11.x)                         |
| Android API                 | Android 3.1.x and later                                                                                                                                     |
| MIB                         | MIB-II                                                                                                                                                      |
| Time Management             | SNTP Client                                                                                                                                                 |
| Unicast Routing             | RIPV1/V2<br>Static Route                                                                                                                                    |

## Security Functions

|                    |                                                                                |
|--------------------|--------------------------------------------------------------------------------|
| Authentication     | Local database<br>RADIUS<br>TACACS+                                            |
| Encryption         | HTTPS<br>AES-128<br>AES-256<br>HMAC<br>RSA-1024<br>SHA-1<br>SHA-256<br>SHA-384 |
| Security Protocols | HTTPS (TLS 1.2)<br>SNMPv3<br>SSHv2                                             |

## Serial Interface

|                          |                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------|
| Connector                | NPort 6600 Models: 8-pin RJ45<br>NPort 6450 Models: DB9 male                                              |
| No. of Ports             | NPort 6450 Models: 4<br>NPort 6600-8 Models: 8<br>NPort 6600-16 Models: 16<br>NPort 6600-32 Models: 32    |
| Serial Standards         | NPort 6610 Models: RS-232<br>NPort 6450/6650 Models: RS-232/422/485                                       |
| Secure Operation Modes   | Reverse SSH<br>Secure Pair Connection<br>Secure Real COM<br>Secure TCP Client<br>Secure TCP Server<br>SSH |
| Standard Operation Modes | Disabled<br>Ethernet Modem<br>Pair Connection<br>PPP<br>Printer<br>Real COM<br>Reverse Telnet             |

|                                   |                                                                                                                                                                                                                |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   | RFC2217<br>TCP Client<br>TCP Server<br>Terminal<br>UDP                                                                                                                                                         |
| Baudrate                          | 50 bps to 921.6 kbps (supports non-standard baudrates)                                                                                                                                                         |
| Console Port                      | NPort 6600 Models: RS-232 (TxD, RxD, GND), 8-pin RJ45 (19200, n, 8, 1)                                                                                                                                         |
| Data Bits                         | 5, 6, 7, 8                                                                                                                                                                                                     |
| Stop Bits                         | 1, 1.5, 2                                                                                                                                                                                                      |
| Parity                            | None<br>Even<br>Odd<br>Space<br>Mark                                                                                                                                                                           |
| Flow Control                      | RTS/CTS<br>DTR/DSR<br>XON/XOFF                                                                                                                                                                                 |
| Pull High/Low Resistor for RS-485 | NPort 6450 / 6650 Models: 1 kilo-ohm, 150 kilo-ohms                                                                                                                                                            |
| RS-485 Data Direction Control     | NPort 6450/6650 Models: Automatic Data Direction Control (ADDC)                                                                                                                                                |
| Terminator for RS-485             | NPort 6450 / 6650 Models: 120 ohms                                                                                                                                                                             |
| <b>Serial Signals</b>             |                                                                                                                                                                                                                |
| 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                                                                                                                                                                                              |
| <b>Power Parameters</b>           |                                                                                                                                                                                                                |
| Input Current                     | NPort 6450 Models: 730 mA @ 12 VDC<br><br>NPort 6600 Models:<br>DC Models: 293 mA @ 48 VDC, 200 mA @ 88 VDC<br>AC Models: 140 mA @ 100 VAC (8 ports), 192 mA @ 100 VAC (16 ports), 285 mA @ 100 VAC (32 ports) |
| Input Voltage                     | NPort 6450 Models: 12 to 48 VDC<br><br>NPort 6600 Models:<br>AC Models: 100 to 240 VAC<br>DC -48V Models: $\pm 48$ VDC (20 to 72 VDC, -20 to -72 VDC)<br>DC -HV Models: 110 VDC (88 to 300 VDC)                |
| <b>Reliability</b>                |                                                                                                                                                                                                                |
| Automatic Reboot Trigger          | Built-in WDT                                                                                                                                                                                                   |
| Alert Tools                       | Built-in buzzer and RTC (real-time clock)                                                                                                                                                                      |
| <b>Physical Characteristics</b>   |                                                                                                                                                                                                                |
| Housing                           | Metal                                                                                                                                                                                                          |
| Installation                      | NPort 6450 Models: Desktop, DIN-rail mounting, Wall mounting<br>NPort 6600 Models: Rack mounting (with optional kit)                                                                                           |
| Dimensions (with ears)            | NPort 6450 Models: 181 x 103 x 35 mm (7.13 x 4.06 x 1.38 in)                                                                                                                                                   |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | NPort 6600 Models: 480 x 195 x 44 mm (18.9 x 7.68 x 1.73 in)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Dimensions (without ears)              | NPort 6450 Models: 158 x 103 x 35 mm (6.22 x 4.06 x 1.38 in)<br>NPort 6600 Models: 440 x 195 x 44 mm (17.32 x 7.68 x 1.73 in)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Weight                                 | NPort 6450 Models: 1,020 g (2.25 lb)<br>NPort 6600-8 Models: 3,460 g (7.63 lb)<br>NPort 6600-16 Models: 3,580 g (7.89 lb)<br>NPort 6600-32 Models: 3,600 g (7.94 lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Interactive Interface                  | LCD panel display (non-T models only)<br>Push buttons for configuration (non-T models only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Environmental Limits</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Operating Temperature                  | Standard Models: 0 to 55°C (32 to 131°F)<br>-HV Models: -40 to 85°C (-40 to 185°F)<br>All other -T Models: -40 to 75°C (-40 to 167°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Storage Temperature (package included) | Standard Models: -40 to 75°C (-40 to 167°F)<br>-HV Models: -40 to 85°C (-40 to 185°F)<br>All other -T Models: -40 to 75°C (-40 to 167°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ambient Relative Humidity              | 5 to 95% (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Standards and Certifications</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| EMC                                    | EN 55032/35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EMI                                    | CISPR 32, FCC Part 15B Class A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EMS                                    | <p>NPort 6450 Models:</p> <p>IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV<br/>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m<br/>IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV<br/>IEC 61000-4-5 Surge: Power: 1 kV<br/>IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m<br/>IEC 61000-4-8 PFMF<br/>IEC 61000-4-11</p> <p>NPort 6600 Models (except -48V/-HV models):</p> <p>IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV<br/>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m<br/>IEC 61000-4-4 EFT: Power 1 kV; Signal 0.5 kV<br/>IEC 61000-4-5 Surge: Power: 2 kV<br/>IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m<br/>IEC 61000-4-8 PFMF<br/>IEC 61000-4-11</p> <p>NPort 6600-48V Models:</p> <p>IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV<br/>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m<br/>IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV<br/>IEC 61000-4-5 Surge: Power: 1 kV<br/>IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m<br/>IEC 61000-4-8 PFMF</p> <p>NPort 6650-HV Models:</p> <p>IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV<br/>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m<br/>IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV<br/>IEC 61000-4-5 Surge: Power: 2 kV<br/>IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m<br/>IEC 61000-4-8 PFMF</p> |
| Safety                                 | UL 60950-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Traffic Control                        | NEMA TS2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Vibration                              | IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Freefall                               | IEC 60068-2-34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Declaration

Green Product

RoHS, CRoHS, WEEE

## MTBF

Time

NPort 6450 Models: 850,905 hrs  
 NPort 6610-8 Models: 135,891 hrs  
 NPort 6610-16 Models: 102,373 hrs  
 NPort 6610-32 Models: 68,707 hrs  
 NPort 6650-8 Models: 636,600 hrs  
 NPort 6650-16 Models: 439,673 hrs  
 NPort 6650-32 Models: 310,078 hrs  
 NPort 6650-8-HV-T: 501,171 hrs  
 NPort 6650-16-HV-T: 380,006 hrs  
 NPort 6650-32-HV-T: 290,914 hrs

Standards

NPort 6450 Models: Telcordia (Bellcore) Standard TR/SR  
 NPort 6600 Models: Telcordia (Bellcore) Standard

## Warranty

Warranty Period

5 years

Details

See [www.moxa.com/warranty](http://www.moxa.com/warranty)

## Package Contents

Device

1 x NPort 6400 / 6600 Series terminal server

Installation Kit

2 x rack-mounting ear (NPort 6600 models)

Cable

1 x DB9 male to RJ45 8-pin (NPort 6600 models)

Power Supply

1 x power cable, suitable for your region (AC models except -T models)  
 1 x power adapter, suitable for your region (NPort 6450)

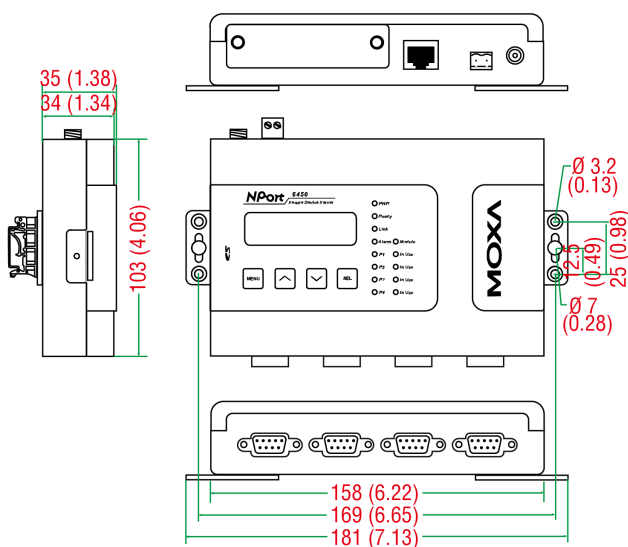
Documentation

1 x quick installation guide  
 1 x warranty card

## Dimensions

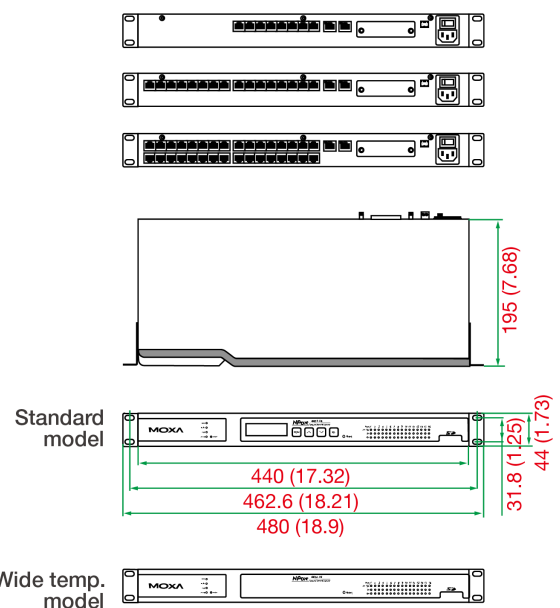
### NPort 6450

Unit: mm (inch)



### NPort 6600

Unit: mm (inch)



## Ordering Information

| Model Name         | No. of Serial Ports | Serial Standards | Serial Interface | Operating Temp. | Input Voltage                          |
|--------------------|---------------------|------------------|------------------|-----------------|----------------------------------------|
| NPort 6450         | 4                   | RS-232/422/485   | DB9 male         | 0 to 55°C       | 12 to 48 VDC                           |
| NPort 6450-T       | 4                   | RS-232/422/485   | DB9 male         | -40 to 75°C     | 12 to 48 VDC                           |
| NPort 6610-8       | 8                   | RS-232           | 8-pin RJ45       | 0 to 55°C       | 100-240 VAC                            |
| NPort 6610-8-48V   | 8                   | RS-232           | 8-pin RJ45       | 0 to 55°C       | 48 VDC; +20 to +72 VDC, -20 to -72 VDC |
| NPort 6610-16      | 16                  | RS-232           | 8-pin RJ45       | 0 to 55°C       | 100-240 VAC                            |
| NPort 6610-16-48V  | 16                  | RS-232           | 8-pin RJ45       | 0 to 55°C       | 48 VDC; +20 to +72 VDC, -20 to -72 VDC |
| NPort 6610-32      | 32                  | RS-232           | 8-pin RJ45       | 0 to 55°C       | 100-240 VAC                            |
| NPort 6610-32-48V  | 32                  | RS-232           | 8-pin RJ45       | 0 to 55°C       | 48 VDC; +20 to +72 VDC, -20 to -72 VDC |
| NPort 6650-8       | 8                   | RS-232/422/485   | 8-pin RJ45       | 0 to 55°C       | 100-240 VAC                            |
| NPort 6650-8-T     | 8                   | RS-232/422/485   | 8-pin RJ45       | -40 to 75°C     | 100-240 VAC                            |
| NPort 6650-8-HV-T  | 8                   | RS-232/422/485   | 8-pin RJ45       | -40 to 85°C     | 110 VDC; 88 to 300 VDC                 |
| NPort 6650-8-48V   | 8                   | RS-232/422/485   | 8-pin RJ45       | 0 to 55°C       | 48 VDC; +20 to +72 VDC, -20 to -72 VDC |
| NPort 6650-16      | 16                  | RS-232/422/485   | 8-pin RJ45       | 0 to 55°C       | 100-240 VAC                            |
| NPort 6650-16-48V  | 16                  | RS-232/422/485   | 8-pin RJ45       | 0 to 55°C       | 48 VDC; +20 to +72 VDC, -20 to -72 VDC |
| NPort 6650-16-T    | 16                  | RS-232/422/485   | 8-pin RJ45       | -40 to 75°C     | 100-240 VAC                            |
| NPort 6650-16-HV-T | 16                  | RS-232/422/485   | 8-pin RJ45       | -40 to 85°C     | 110 VDC; 88 to 300 VDC                 |
| NPort 6650-32      | 32                  | RS-232/422/485   | 8-pin RJ45       | 0 to 55°C       | 100-240 VAC                            |
| NPort 6650-32-48V  | 32                  | RS-232/422/485   | 8-pin RJ45       | 0 to 55°C       | 48 VDC; +20 to +72 VDC, -20 to -72 VDC |
| NPort 6650-32-HV-T | 32                  | RS-232/422/485   | 8-pin RJ45       | -40 to 85°C     | 110 VDC; 88 to 300 VDC                 |

## Accessories (sold separately)

### Cables

|                 |                                                                                                                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CBL-RJ45F25-150 | <p>8-pin RJ45 to DB25 female serial cable, 1.5 m</p> <p>Applicable Models:<br/> NPort 6650-8-48V<br/> NPort 6650-8-HV-T<br/> NPort 6650-32-48V<br/> NPort 6650-32-HV-T<br/> NPort 6650-16-HV-T<br/> NPort 6650-16-48V</p>                                                    |
| CBL-RJ45F9-150  | <p>8-pin RJ45 to DB9 female serial cable, 1.5m</p> <p>Applicable Models:<br/> NPort 6650-16<br/> NPort 6650-8-48V<br/> NPort 6610-32-48V<br/> NPort 6650-16-48V<br/> NPort 6650-16-T<br/> NPort 6650-8<br/> NPort 6650-8-HV-T<br/> NPort 6610-16<br/> NPort 6650-32-HV-T</p> |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | NPort 6610-8<br>NPort 6650-32-48V<br>NPort 6650-16-HV-T<br>NPort 6610-32<br>NPort 6610-16-48V<br>NPort 6610-8-48V<br>NPort 6650-8-T<br>NPort 6650-32                                                                                                                                                                                                                                                                        |
| CBL-RJ45M25-150  | 8-pin RJ45 to DB25 male serial cable, 1.5m<br><br>Applicable Models:<br>NPort 6650-8<br>NPort 6650-8-HV-T<br>NPort 6610-16<br>NPort 6650-8-T<br>NPort 6610-32-48V<br>NPort 6650-16-T<br>NPort 6650-8-48V<br>NPort 6650-16-HV-T<br>NPort 6650-16-48V<br>NPort 6650-16<br>NPort 6650-32-HV-T<br>NPort 6650-32<br>NPort 6610-8<br>NPort 6610-8-48V<br>NPort 6650-32-48V<br>NPort 6610-16-48V<br>NPort 6610-32                  |
| CBL-RJ45M9-150   | 8-pin RJ45 to DB9 male serial cable, 1.5m<br><br>Applicable Models:<br>NPort 6610-32-48V<br>NPort 6610-8-48V<br>NPort 6650-32<br>NPort 6650-8<br>NPort 6650-32-HV-T<br>NPort 6610-16<br>NPort 6610-8<br>NPort 6650-8-48V<br>NPort 6650-16<br>NPort 6650-16-HV-T<br>NPort 6610-16-48V<br>NPort 6610-32<br>NPort 6650-32-48V<br>NPort 6650-8-T<br>NPort 6650-16-T<br>NPort 6650-8-HV-T<br>NPort 6650-16-48V                   |
| CBL-RJ45SF25-150 | 8-pin RJ45 to DB25 female serial cable with shielding, 1.5m<br><br>Applicable Models:<br>NPort 6610-16<br>NPort 6610-32-48V<br>NPort 6610-32<br>NPort 6650-32<br>NPort 6650-32-48V<br>NPort 6610-8<br>NPort 6650-16-T<br>NPort 6610-16-48V<br>NPort 6650-32-HV-T<br>NPort 6650-16<br>NPort 6650-8<br>NPort 6650-16-48V<br>NPort 6650-16-HV-T<br>NPort 6650-8-T<br>NPort 6610-8-48V<br>NPort 6650-8-48V<br>NPort 6650-8-HV-T |
| CBL-RJ45SF9-150  | 8-pin RJ45 to DB9 female serial cable with shielding, 1.5m<br><br>Applicable Models:<br>NPort 6610-32<br>NPort 6650-8                                                                                                                                                                                                                                                                                                       |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | NPort 6650-32<br>NPort 6650-8-HV-T<br>NPort 6650-16-HV-T<br>NPort 6610-8<br>NPort 6650-16<br>NPort 6610-16<br>NPort 6650-16-48V<br>NPort 6650-8-T<br>NPort 6650-8-48V<br>NPort 6650-32-48V<br>NPort 6650-16-T<br>NPort 6610-32-48V<br>NPort 6610-8-48V<br>NPort 6610-16-48V<br>NPort 6650-32-HV-T                                                                                                                         |
| CBL-RJ45SM25-150 | 8-pin RJ45 to DB25 male serial cable with shielding, 1.5m<br><br>Applicable Models:<br>NPort 6650-8<br>NPort 6650-8-48V<br>NPort 6610-32-48V<br>NPort 6650-8-T<br>NPort 6650-32-HV-T<br>NPort 6650-32<br>NPort 6610-16<br>NPort 6650-16<br>NPort 6610-8-48V<br>NPort 6650-16-T<br>NPort 6610-8<br>NPort 6610-16-48V<br>NPort 6650-16-48V<br>NPort 6610-32<br>NPort 6650-8-HV-T<br>NPort 6650-32-48V<br>NPort 6650-16-HV-T |
| CBL-RJ45SM9-150  | 8-pin RJ45 to DB9 male serial cable with shielding, 1.5m<br><br>Applicable Models:<br>NPort 6610-16<br>NPort 6650-32<br>NPort 6650-8-T<br>NPort 6610-32-48V<br>NPort 6610-16-48V<br>NPort 6650-16-48V<br>NPort 6610-8<br>NPort 6650-32-HV-T<br>NPort 6610-8-48V<br>NPort 6650-16-HV-T<br>NPort 6650-32-48V<br>NPort 6650-8-HV-T<br>NPort 6650-16-T<br>NPort 6610-32<br>NPort 6650-8-48V<br>NPort 6650-16<br>NPort 6650-8  |

## Connectors

|                 |                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------|
| Mini DB9F-to-TB | DB9 female to terminal block connector<br><br>Applicable Models:<br>NPort 6450<br>NPort 6450-T |
|-----------------|------------------------------------------------------------------------------------------------|

## DIN-Rail Mounting Kits

|       |                                                                                      |
|-------|--------------------------------------------------------------------------------------|
| DK35A | DIN-rail mounting kit, 35 mm<br><br>Applicable Models:<br>NPort 6450<br>NPort 6450-T |
|-------|--------------------------------------------------------------------------------------|

## Expansion Modules

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| NM-TX01        | 1 10/100BaseT(X) port                                                           |
| NM-TX01-T      | 1 10/100BaseT(X) port, -40 to 75°C operating temperature                        |
| NM-TX02        | 2 10/100BaseT(X) ports                                                          |
| NM-TX02-T      | 2 10/100BaseT(X) ports, -40 to 75°C operating temperature                       |
| NM-FX01-M-SC   | 1 100BaseFX port, multi-mode, SC connector                                      |
| NM-FX01-M-SC-T | 1 100BaseFX port, multi-mode, SC connector, -40 to 75°C operating temperature   |
| NM-FX01-S-SC   | 1 100BaseFX port, single-mode, SC connector                                     |
| NM-FX01-S-SC-T | 1 100BaseFX port, single-mode, SC connector, -40 to 75°C operating temperature  |
| NM-FX02-M-SC   | 2 100BaseFX ports, multi-mode, SC connector                                     |
| NM-FX02-M-SC-T | 2 100BaseFX ports, multi-mode, SC connector, -40 to 75°C operating temperature  |
| NM-FX02-S-SC   | 2 100BaseFX ports, single-mode, SC connector                                    |
| NM-FX02-S-SC-T | 2 100BaseFX ports, single-mode, SC connector, -40 to 75°C operating temperature |

#### Power Adapters

|                     |                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| PWR-12150-WPAU-S4   | Locking barrel plug with 12 VDC, 1.5 A, 100 to 240 VAC, AU plug, 0 to 40°C operating temperature<br><br>Applicable Models:<br>NPort 6450    |
| PWR-12150-WPCN-S4   | Locking barrel plug with 12 VDC, 1.5 A, 100 to 240 VAC, CN plug, 0 to 40°C operating temperature<br><br>Applicable Models:<br>NPort 6450    |
| PWR-12150-WPKR-S4   | Locking barrel plug with 12 VDC, 1.5 A, 100 to 240 VAC, KR plug, 0 to 40°C operating temperature<br><br>Applicable Models:<br>NPort 6450    |
| PWR-12150-WPEU-S4   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, EU plug, 0 to 40°C operating temperature<br><br>Applicable Models:<br>NPort 6450        |
| PWR-12150-WPUK-S4   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, UK plug, 0 to 40°C operating temperature<br><br>Applicable Models:<br>NPort 6450        |
| PWR-12150-WPUSJP-S4 | Locking barrel plug with 12 VDC, 1.5 A, 100 to 240 VAC, US/JP plug, 0 to 40°C operating temperature<br><br>Applicable Models:<br>NPort 6450 |
| PWR-12150-AU-SA-T   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, AU plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 6450-T    |
| PWR-12150-CN-SA-T   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, CN plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 6450-T    |
| PWR-12150-EU-SA-T   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, EU plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 6450-T    |
| PWR-12150-UK-SA-T   | Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC, UK plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 6450-T    |
| PWR-12150-USJP-SA-T | Locking barrel plug, 12 VDC 1.5 A, 100 to 240 VAC, US/JP plug, -40 to 75°C operating temperature<br><br>Applicable Models:<br>NPort 6450-T  |

#### Power Cords

|                  |                                 |
|------------------|---------------------------------|
| PWC-C13AU-3B-183 | Power cord with AU plug, 1.83 m |
|------------------|---------------------------------|

|                           |                                                                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <b>Applicable Models:</b><br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-16<br>NPort 6650-32<br>NPort 6650-8-T<br>NPort 6650-16-T                                                      |
| PWC-C13CN-3B-183          | Power cord with three-prong CN plug, 1.83 m<br><br><b>Applicable Models:</b><br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-16<br>NPort 6650-32<br>NPort 6650-8-T<br>NPort 6650-16-T   |
| PWC-C13EU-3B-183          | Power cord with EU plug, 1.83 m<br><br><b>Applicable Models:</b><br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-16<br>NPort 6650-32<br>NPort 6650-8-T<br>NPort 6650-16-T               |
| PWC-C13JP-3B-183          | Power cord with JP plug plug, 7A/125V, 1.83 m<br><br><b>Applicable Models:</b><br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-16<br>NPort 6650-32<br>NPort 6650-8-T<br>NPort 6650-16-T |
| PWC-C13UK-3B-183          | Power cord with UK plug, 1.83 m<br><br><b>Applicable Models:</b><br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-16<br>NPort 6650-32<br>NPort 6650-8-T<br>NPort 6650-16-T               |
| PWC-C13US-3B-183          | Power cord with US plug, 1.83 m<br><br><b>Applicable Models:</b><br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-16<br>NPort 6650-32<br>NPort 6650-8-T<br>NPort 6650-16-T               |
| CBL-PJ21NOPEN-BK-30       | Locking barrel plug to bare-wire cable                                                                                                                                                                                  |
| <b>Wall-Mounting Kits</b> |                                                                                                                                                                                                                         |
| WK-35-01                  | Wall-mounting kit with 2 plates (35 x 44 x 2.5 mm) and 6 screws<br><br><b>Applicable Models:</b>                                                                                                                        |

|  |                            |
|--|----------------------------|
|  | NPort 6450<br>NPort 6450-T |
|--|----------------------------|

## Rack-Mounting Kits

WK-44-01

Rack-mounting kit, 2 L-shaped plates, 8 screws, 44 x 57.5 x 1.6 mm

Applicable Models:

NPort 6610-8  
NPort 6610-32  
NPort 6610-32-48V  
NPort 6610-16-48V  
NPort 6610-16  
NPort 6610-8-48V  
NPort 6650-16-T  
NPort 6650-16-48V  
NPort 6650-16  
NPort 6650-32-HV-T  
NPort 6650-16-HV-T  
NPort 6650-8-T  
NPort 6650-32  
NPort 6650-32-48V  
NPort 6650-8-HV-T  
NPort 6650-8  
NPort 6650-8-48V

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