

# 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 SSL 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 DES, 3DES, and AES encryption algorithms. 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.

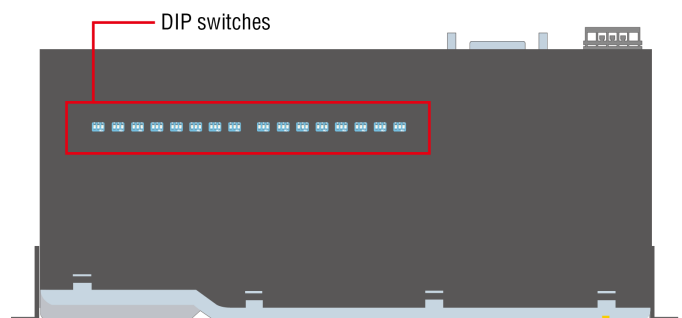
Note: The LCD panel is only available with standard-temperature models.

## 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

SD Slot	Up to 32 GB (SD 2.0 compatible)
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### Input/Output Interface

Alarm Contact Channels	Resistive load: 1 A @ 24 VDC
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### Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	1 Auto MDI/MDI-X connection
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### Magnetic Isolation Protection

	1.5 kV (built-in)
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### Optical Fiber

		100BaseFX		
		Multi-Mode		Single-Mode
Fiber Cable Type		OM1	50/125 $\mu$ m 800 MHz x km	G.652
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.  
 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), Serial Console, Telnet/SSH Console, Windows Utility
Management	ARP, BOOTP, DHCP Client, DNS, HTTP, IPv4/IPv6, SMTP, SNMPv1/v2c/v3, TCP/IP, Telnet, UDP, PPPOE, ICMP
Windows Real COM Drivers	Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Fixed TTY Drivers	SCO UNIX, SCO OpenServer, UnixWare 7, QNX 4.25, QNX 6.x, Solaris 10, FreeBSD, AIX 5.x, HP-UX 11i, Mac OS X
Linux Real TTY Drivers	Kernel version: 2.4.x, 2.6.x, 3.x, 4.x
Android API	Android 3.1.x and later
MIB	MIB-II
Unicast Routing	RIPV1/V2, Static Route

## Serial Interface

Connector	NPort 6600 Series: 8-pin RJ45 NPort 6450 Series: DB9 male
No. of Ports	NPort 6450 Series: 4 NPort 6600-8 Series: 8 NPort 6600-16 Series: 16 NPort 6600-32 Series: 32
Serial Standards	NPort 6610 Series: RS-232 NPort 6450/6650 Series: RS-232, RS-422, RS-485
Secure Operation Modes	Reverse SSH, Secure Pair Connection, Secure Real COM, Secure TCP Client, Secure TCP Server, SSH
Standard Operation Modes	Disabled, Ethernet Modem, Pair Connection, PPP, Printer, Real COM, Reverse Telnet, RFC2217, TCP Client, TCP Server, Terminal, UDP
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Console Port	NPort 6600 Series: 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, Even, Odd, Space, Mark
Flow Control	RTS/CTS, DTR/DSR, XON/XOFF
Pull High/Low Resistor for RS-485	1 kilo-ohm, 150 kilo-ohms
RS-485 Data Direction Control	ADDC® (automatic data direction control)
Terminator for RS-485	NPort 6600 Series: 120 ohms

## Serial Signals

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND

## Power Parameters

Input Current	NPort 6450 Series: 730 mA @ 12 VDC  NPort 6600 Series DC Models: 293 mA @ 48 VDC, 200 mA @ 88 VDC AC Models: 140 mA @ 100 VAC (8 ports), 192 mA @ 100 VAC (16 ports), 285 mA @ 100 VAC (32 ports)
Input Voltage	NPort 6450 Series: 12 to 48 VDC  NPort 6600 Series AC Models: 100 to 240 VAC DC Models: ±48 VDC (20 to 72 VDC, -20 to -72 VDC), 110 VDC (88 to 300 VDC)

## Reliability

Automatic Reboot Trigger	Built-in WDT
Alert Tools	Built-in buzzer and RTC (real-time clock)

## Physical Characteristics

Housing	Metal
Dimensions (with ears)	NPort 6450 Series: 181 x 103 x 35 mm (7.13 x 4.06 x 1.38 in) NPort 6600 Series: 480 x 195 x 44 mm (18.9 x 7.68 x 1.73 in)
Dimensions (without ears)	NPort 6450 Series: 158 x 103 x 35 mm (6.22 x 4.06 x 1.38 in) NPort 6600 Series: 440 x 195 x 44 mm (17.32 x 7.68 x 1.73 in)
Weight	NPort 6450 Series: 1,020 g (2.25 lb) NPort 6600-8 Series: 3,460 g (7.63 lb) NPort 6600-16 Series: 3,580 g (7.89 lb) NPort 6600-32 Series: 3,600 g (7.94 lb)
Interactive Interface	LCD panel display (non-T models only) Push buttons for configuration (non-T models only)
Installation	NPort 6450 Series: Desktop, DIN-rail mounting, Wall mounting NPort 6600 Series: Rack mounting (with optional kit)

## Environmental Limits

Operating Temperature	Standard Models: 0 to 55°C (32 to 131°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) High-Voltage Wide Temp. Models: -40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	Standard/Wide Temp. Models: -40 to 75°C (-40 to 167°F) High-Voltage Wide Temp. Models: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

## Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class A
EMS	<p>NPort 6450 Series:</p> <p>IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs</p> <p>NPort 6600 Series (except -48V/-HV models):</p> <p>IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power 1 kV; Signal 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11 DIPs</p> <p>NPort 6600-48V Series:</p> <p>IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF</p> <p>NPort 6650-HV Series:</p> <p>IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m 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
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#### MTBF

Time	NPort 6450 Series: 850,905 hrs NPort 6610-8 Series: 135,891 hrs NPort 6610-16 Series: 102,373 hrs NPort 6610-32 Series: 68,707 hrs NPort 6650-8 Series: 636,600 hrs NPort 6650-16 Series: 439,673 hrs NPort 6650-32 Series: 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 Series: Telcordia (Bellcore) Standard TR/SR NPort 6600 Series: Telcordia (Bellcore) Standard

#### Warranty

Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

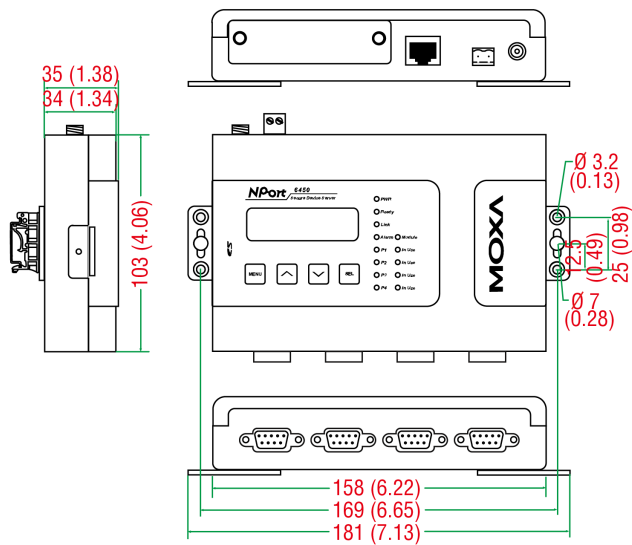
#### Package Contents

Device	1 x NPort 6400/6600 Series terminal server
Installation Kit	2 x rack-mounting ear (NPort 6600 Series)
Cable	1 x DB9 male to RJ45 8-pin (NPort 6600 Series)
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

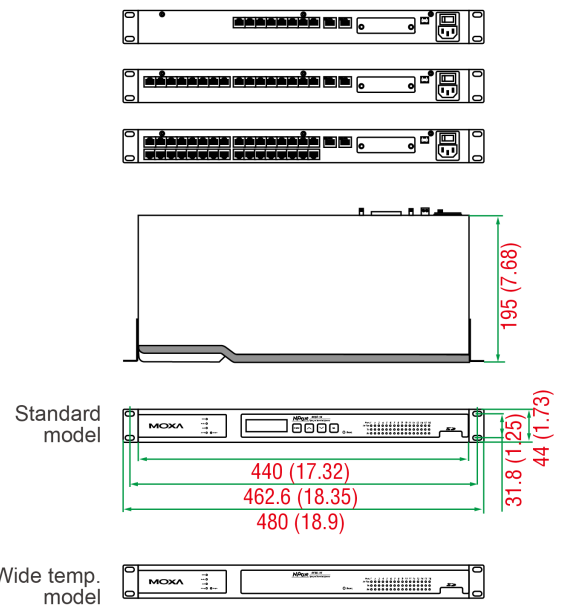
### NPort 6450

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

Model Name	No. of Serial Ports	Serial Standards	Serial Interface	Operating Temp.	Input Voltage
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)

### Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector  Applicable Models: NPort 6450 NPort 6450-T
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### DIN-Rail Mounting Kits

DK35A	DIN-rail mounting kit, 35 mm  Applicable Models: NPort 6450 NPort 6450-T
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### Wall-Mounting Kits

WK-35-01	Wall-mounting kit, 2 plates, 6 screws, 35 x 44 x 2.5 mm  Applicable Models: NPort 6450 NPort 6450-T
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### Rack-Mounting Kits

WK-44-01	Wall-mounting kit, 2 L-shaped plates, 6 screws, 44 x 35 x 2.5 mm  Applicable Models: NPort 6610-8 NPort 6610-8-48V NPort 6610-16 NPort 6610-16-48V NPort 6610-32 NPort 6610-32-48V NPort 6650-8 NPort 6650-8-T NPort 6650-8-48V NPort 6650-8-HV-T NPort 6650-16 NPort 6650-16-T NPort 6650-16-48V NPort 6650-16-HV-T NPort 6650-32 NPort 6650-32-48V NPort 6650-32-HV-T
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### Cables

CBL-RJ45F9-150	RJ45 to DB9 female serial cable, 1.5 m  Applicable Models: NPort 6610-8 NPort 6610-16 NPort 6610-32 NPort 6650-8 NPort 6650-8-T NPort 6650-16 NPort 6650-16-T NPort 6650-32 NPort 6610-8-48V NPort 6610-16-48V NPort 6610-32-48V NPort 6650-8-48V
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	<p>NPort 6650-16-48V  NPort 6650-32-48V  NPort 6650-8-HV-T  NPort 6650-16-HV-T  NPort 6650-32-HV-T</p>
CBL-RJ45M9-150	<p>RJ45 to DB9 male serial cable, 1.5 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-16  NPort 6610-32  NPort 6650-8  NPort 6650-8-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-32  NPort 6610-8-48V  NPort 6610-16-48V  NPort 6610-32-48V  NPort 6650-8-48V  NPort 6650-16-48V  NPort 6650-32-48V  NPort 6650-8-HV-T  NPort 6650-16-HV-T  NPort 6650-32-HV-T</p>
CBL-RJ45F25-150	<p>RJ45 to DB25 female serial cable, 1.5 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-16  NPort 6610-32  NPort 6650-8  NPort 6650-8-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-32  NPort 6610-8-48V  NPort 6610-16-48V  NPort 6610-32-48V  NPort 6650-8-48V  NPort 6650-16-48V  NPort 6650-32-48V  NPort 6650-8-HV-T  NPort 6650-16-HV-T  NPort 6650-32-HV-T</p>
CBL-RJ45M25-150	<p>RJ45 to DB25 male serial cable, 1.5 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-16  NPort 6610-32  NPort 6650-8  NPort 6650-8-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-32  NPort 6610-8-48V  NPort 6610-16-48V  NPort 6610-32-48V  NPort 6650-8-48V  NPort 6650-16-48V  NPort 6650-32-48V  NPort 6650-8-HV-T  NPort 6650-16-HV-T  NPort 6650-32-HV-T</p>
CBL-RJ45SF9-150	<p>RJ45 to DB9 female serial shielded cable, 1.5 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-16  NPort 6610-32  NPort 6650-8  NPort 6650-8-T</p>



	<p>NPort 6650-16  NPort 6650-16-T  NPort 6650-32  NPort 6610-8-48V  NPort 6610-16-48V  NPort 6610-32-48V  NPort 6650-8-48V  NPort 6650-16-48V  NPort 6650-32-48V  NPort 6650-8-HV-T  NPort 6650-16-HV-T  NPort 6650-32-HV-T</p>
CBL-RJ45SM9-150	<p>RJ45 to DB9 male serial shielded cable, 1.5 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-16  NPort 6610-32  NPort 6650-8  NPort 6650-8-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-32  NPort 6610-8-48V  NPort 6610-16-48V  NPort 6610-32-48V  NPort 6650-8-48V  NPort 6650-16-48V  NPort 6650-32-48V  NPort 6650-8-HV-T  NPort 6650-16-HV-T  NPort 6650-32-HV-T</p>
CBL-RJ45SF25-150	<p>RJ45 to DB25 female serial shielded cable, 1.5 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-16  NPort 6610-32  NPort 6650-8  NPort 6650-8-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-32  NPort 6610-8-48V  NPort 6610-16-48V  NPort 6610-32-48V  NPort 6650-8-48V  NPort 6650-16-48V  NPort 6650-32-48V  NPort 6650-8-HV-T  NPort 6650-16-HV-T  NPort 6650-32-HV-T</p>
CBL-RJ45SM25-150	<p>RJ45 to DB25 male serial shielded cable, 1.5 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-16  NPort 6610-32  NPort 6650-8  NPort 6650-8-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-32  NPort 6610-8-48V  NPort 6610-16-48V  NPort 6610-32-48V  NPort 6650-8-48V  NPort 6650-16-48V  NPort 6650-32-48V  NPort 6650-8-HV-T  NPort 6650-16-HV-T  NPort 6650-32-HV-T</p>

## Power Supplies

PWR-12125-DT-S2	Desktop power supply (requires power cord), 12 VDC, 1.25 A, 100-240 VAC, 0 to 40°C operating temperature  Applicable Models: NPort 6450
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## Power Adapters

PWR-12125-DT-S2	Desktop power supply (requires power cord), 12 VDC, 1.25 A, 100-240 VAC, 0 to 40°C operating temperature  Applicable Models: NPort 6450-T
PWR-12150-AU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, Australia (AU) plug, -40 to 75°C operating temperature  Applicable Models: NPort 6450-T
PWR-12150-CN-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, China (CN) plug, -40 to 75°C operating temperature  Applicable Models: NPort 6450-T
PWR-12150-EU-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, Continental Europe (EU) plug, -40 to 75°C operating temperature  Applicable Models: NPort 6450-T
PWR-12150-UK-SA-T	Locking barrel plug, 12 VDC, 1.5 A, 100-240 VAC, United Kingdom (UK) plug, -40 to 75°C operating temperature  Applicable Models: NPort 6450-T
PWR-12150-USJP-SA-T	Locking barrel plug, 12 VDC 1.5 A, 100-240 VAC, United States/Japan (US/JP) plug, -40 to 75°C operating temperature  Applicable Models: NPort 6450-T

## Power Cords

PWC-C7AU-2B-183	Power cord with Australian (AU) plug, 2.5A/250V, 1.83 m  Applicable Models: NPort 6450 NPort 6450-T
PWC-C7JP-2B-183	Power cord with Japan (JP) plug, 7A/125V, 1.83 m  Applicable Models: NPort 6450 NPort 6450-T
PWC-C7EU-2B-183	Power cord with Continental Europe (EU) plug, 2.5A/250V, 1.83 m  Applicable Models: NPort 6450 NPort 6450-T
PWC-C7UK-2B-183	Power cord with United Kingdom (UK) plug, 2.5A/250V, 1.83 m  Applicable Models: NPort 6450 NPort 6450-T
PWC-C7US-2B-183	Power cord with United States (US) plug, 10A/125V, 1.83 m  Applicable Models: NPort 6450 NPort 6450-T
PWC-C13AU-3B-183	Power cord with Australian (AU) plug, 1.83 m  Applicable Models:

	<p>NPort 6610-8  NPort 6610-8-48V  NPort 6610-16  NPort 6610-16-48V  NPort 6610-32  NPort 6610-32-48V  NPort 6650-8  NPort 6650-8-T  NPort 6650-8-48V  NPort 6650-8-HV-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-16-48V  NPort 6650-16-HV-T  NPort 6650-32  NPort 6650-32-48V  NPort 6650-32-HV-T</p>
PWC-C13CN-3B-183	<p>Power cord with three-prong China (CN) plug, 1.83 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-8-48V  NPort 6610-16  NPort 6610-16-48V  NPort 6610-32  NPort 6610-32-48V  NPort 6650-8  NPort 6650-8-T  NPort 6650-8-48V  NPort 6650-8-HV-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-16-48V  NPort 6650-16-HV-T  NPort 6650-32  NPort 6650-32-48V  NPort 6650-32-HV-T</p>
PWC-C13EU-3B-183	<p>Power cord with Continental Europe (EU) plug, 1.83 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-8-48V  NPort 6610-16  NPort 6610-16-48V  NPort 6610-32  NPort 6610-32-48V  NPort 6650-8  NPort 6650-8-T  NPort 6650-8-48V  NPort 6650-8-HV-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-16-48V  NPort 6650-16-HV-T  NPort 6650-32  NPort 6650-32-48V  NPort 6650-32-HV-T</p>
PWC-C13JP-3B-183	<p>Power cord with Japan (JP) plug, 7A/125V, 1.83 m</p> <p>Applicable Models:  NPort 6610-8  NPort 6610-8-48V  NPort 6610-16  NPort 6610-16-48V  NPort 6610-32  NPort 6610-32-48V  NPort 6650-8  NPort 6650-8-T  NPort 6650-8-48V  NPort 6650-8-HV-T  NPort 6650-16  NPort 6650-16-T  NPort 6650-16-48V</p>

	NPort 6650-16-HV-T NPort 6650-32 NPort 6650-32-48V NPort 6650-32-HV-T
PWC-C13UK-3B-183	Power cord with United Kingdom (UK) plug, 1.83 m  Applicable Models: NPort 6610-8 NPort 6610-8-48V NPort 6610-16 NPort 6610-16-48V NPort 6610-32 NPort 6610-32-48V NPort 6650-8 NPort 6650-8-T NPort 6650-8-48V NPort 6650-8-HV-T NPort 6650-16 NPort 6650-16-T NPort 6650-16-48V NPort 6650-16-HV-T NPort 6650-32 NPort 6650-32-48V NPort 6650-32-HV-T
PWC-C13US-3B-183	Power cord with United States (US) plug, 1.83 m  Applicable Models: NPort 6610-8 NPort 6610-8-48V NPort 6610-16 NPort 6610-16-48V NPort 6610-32 NPort 6610-32-48V NPort 6650-8 NPort 6650-8-T NPort 6650-8-48V NPort 6650-8-HV-T NPort 6650-16 NPort 6650-16-T NPort 6650-16-48V NPort 6650-16-HV-T NPort 6650-32 NPort 6650-32-48V NPort 6650-32-HV-T

### Power Wiring

CBL-PJ21NOPEB-BK-30	Locking barrel plug to bare-wire cable  Applicable Models: NPort 6450
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### Expansion Modules

NM-TX01	1 10/100BaseTX port
NM-TX01-T	1 10/100BaseTX port, -40 to 75°C operating temperature
NM-TX02	2 10/100BaseTX ports
NM-TX02-T	2 10/100BaseTX 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

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