

# NPort 6400/6600シリーズ

4/8/16/32ポートのRS-232/422/485セキュアターミナルサーバー

## 機能とメリット

- IPアドレスを簡単に設定できるLCDパネル（標準温度モデル）
- Real COM、TCPサーバー、TCPクライアント、ペア接続、ターミナル、リバースターミナルのセキュアな動作モード
- 非標準ボーレートを高精度でサポート
- イーサネット切断時もシリアルデータを保存するポートバッファ
- IPv6をサポート
- ネットワークモジュールにイーサネット冗長性（STP/RSTP/Turbo Ring）を確保
- コマンドバイコマンドモードでサポートされる汎用シリアルコマンド



## 認証



## 製品紹介

NPort® 6000シリーズは、TLSおよびSSHプロトコルを使用して、暗号化されたシリアルデータをイーサネット経由で伝送するターミナルサーバーです。あらゆる種類の最大32台のシリアルデバイスを、同じIPアドレスでNPort® 6000シリーズに接続できます。イーサネットポートは、通常あるいはセキュアなTCP/IP接続に対して設定できます。NPort® 6000セキュアデバイスサーバーは、狭いスペースに多数のシリアルデバイスを設置するアプリケーションに最適です。セキュリティ侵害は許容できず、NPort® 6000シリーズはAES暗号化アルゴリズムのサポートによりデータ伝送の完全性を保証します。あらゆる種類のシリアルデバイスをNPort® 6000シリーズに接続でき、NPort® 6000上の各シリアルポートはRS-232、RS-422、RS-485のいずれの伝送にも個別に設定できます。

## イーサネット接続障害時でもノーデータロス

NPort® 6000シリーズは信頼性の高いデバイスサーバーであり、ユーザーにセキュアなシリアル-イーサネットデータ伝送と顧客志向のハードウェア設計を提供します。イーサネット接続に障害が発生すると、NPort® 6000シリーズはすべてのシリアルデータを内蔵の64 KBポートバッファにキューイングします。イーサネット接続が復旧すると、NPort® 6000シリーズはバッファ内のすべてのデータを受信された順番に直ちに送信します。ユーザーは、SDカードを装着することで、ポートバッファのサイズを拡張できます。

## LCDパネルにより設定が簡単に

NPort® 6600シリーズは、設定用のLCDパネルを内蔵しています。このパネルは、サーバー名、シリアル番号、IPアドレス、ならびにIPアドレス、ネットマスク、ゲートウェイアドレスなどのデバイスサーバーの設定パラメータを表示します。更新を簡単かつすばやく行えます。

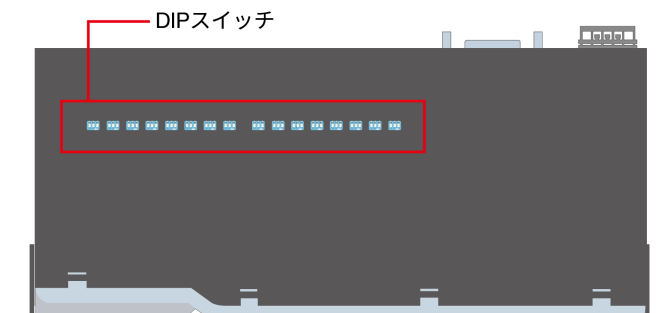
注：LCDパネルは標準テンプレートモデルでのみ利用可能です。



注：LCDパネルは、標準温度モデルのみで利用できます。

## RS-485通信用の調整可能な抵抗値

NPort® 6600は、RS-485通信用に調整可能な終端抵抗およびプルアップ/プルダウン抵抗を提供します。一部の重要環境では、シリアル信号の反射を防ぐために終端抵抗が必要となる場合があり、電気信号の完全性を維持するためにプルアップ/プルダウン抵抗の調整が必要となることがあります。すべての環境に適合する単一の抵抗値セットは存在しないため、NPort® 6600は内蔵DIPスイッチを使用して各シリアルポートの抵抗値を手動で調整できます。



## 仕様

### Memory

|         |                                 |
|---------|---------------------------------|
| 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

|                  |                         | 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.  
 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 | Serial Console<br>Windows Utility<br>Device Search Utility (DSU)<br>MCC Tool<br>Telnet/SSH Console<br>Web Console (HTTP/HTTPS)               |
| Management            | DHCP Client<br>IPv4/IPv6<br>SMTP<br>SNMPv1/v2c/v3<br>Telnet<br>DNS<br>HTTP<br>ARP<br>BOOTP<br>UDP<br>TCP/IP<br>ICMP<br>LLDP<br>PPPOE<br>SNTP |

|                             |                                                                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Windows Real COM Drivers    | Windows 11, 10, 8.1, 8, 7, Vista, XP, ME, 98, and 95<br>Windows Server 2022, 2019, 2016, 2012 R2, 2012, 2008 R2, 2008, 2003, 2000, and NT<br>Windows Embedded CE 6.0 and 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: 14, 13, 12, 11, and 10.1x<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 | Windows 11<br>Linux Kernel 6.x, 5.x, and 4.x<br>macOS 14, 13, 12, and 11                                                                                                                          |
| Virtual Machine             | VMWare ESXi (Windows 11/10)<br>VMware Fusion (Windows on macOS 14, 13, 12, 11, and 10.1x)<br>Parallels Desktop (Windows on macOS 14, 13, 12, 11, and 10.1x)                                       |
| 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                                           |

|                                   |                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------|
|                                   | Real COM<br>Reverse Telnet<br>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                                                     |

### 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 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)                |

### Reliability

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

### Physical Characteristics

|              |                                                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------|
| 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)<br>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)                                                                          |

## Environmental Limits

|                                        |                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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)                                                                                                                |

## Standards and Certifications

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>NPort 6610-8 models: 135,891 hrs<br>NPort 6610-16 models: 102,373 hrs<br>NPort 6610-32 models: 68,707 hrs<br>NPort 6650-8 models: 636,600 hrs<br>NPort 6650-16 models: 439,673 hrs<br>NPort 6650-32 models: 310,078 hrs<br>NPort 6650-8-HV-T: 501,171 hrs<br>NPort 6650-16-HV-T: 380,006 hrs<br>NPort 6650-32-HV-T: 290,914 hrs |
| Standards | NPort 6450 models: Telcordia (Bellcore) Standard TR/SR<br>NPort 6600 models: Telcordia (Bellcore) Standard                                                                                                                                                                                                                                                        |

#### Warranty

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

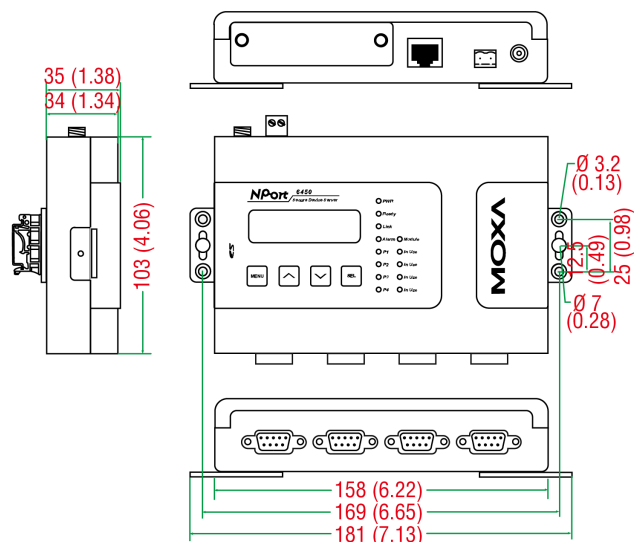
#### Package Contents

|                  |                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 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)<br>1 x power adapter, suitable for your region (NPort 6450) |
| Documentation    | 1 x quick installation guide<br>1 x warranty card                                                                                  |

## 寸法

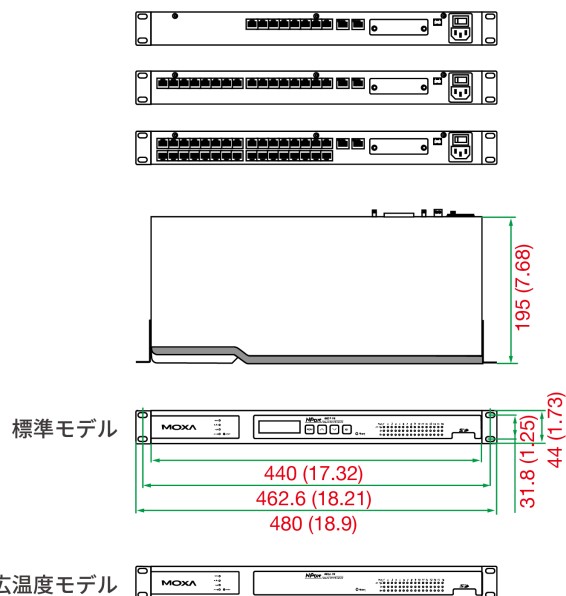
### NPort 6450

単位：mm（インチ）



### NPort 6600

単位：mm（インチ）



標準モデル

広温度モデル

## 注文情報

| 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                 |

## アクセサリ（別売）

### Cables

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

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32<br>NPort 6650-8-48V<br>NPort 6650-8-HV-T<br>NPort 6650-16-48V<br>NPort 6650-16-HV-T<br>NPort 6650-32-48V<br>NPort 6650-32-HV-T                                                                                                                                                                                                                                            |
| CBL-RJ45SF25-150 | 8-pin RJ45 to DB25 female serial cable with shielding, 1.5m<br><br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6610-8-48V<br>NPort 6610-16-48V<br>NPort 6610-32-48V<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32<br>NPort 6650-8-48V<br>NPort 6650-8-HV-T<br>NPort 6650-16-48V<br>NPort 6650-16-HV-T<br>NPort 6650-32-48V<br>NPort 6650-32-HV-T |
| CBL-RJ45SF9-150  | 8-pin RJ45 to DB9 female serial cable with shielding, 1.5m<br><br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6610-8-48V<br>NPort 6610-16-48V<br>NPort 6610-32-48V<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32<br>NPort 6650-8-48V<br>NPort 6650-8-HV-T<br>NPort 6650-16-48V<br>NPort 6650-16-HV-T<br>NPort 6650-32-48V<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 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6610-8-48V<br>NPort 6610-16-48V<br>NPort 6610-32-48V<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32<br>NPort 6650-8-48V<br>NPort 6650-8-HV-T<br>NPort 6650-16-48V<br>NPort 6650-16-HV-T<br>NPort 6650-32-48V<br>NPort 6650-32-HV-T   |
| CBL-RJ45SM9-150  | 8-pin RJ45 to DB9 male serial cable with shielding, 1.5m<br><br>Applicable Models:<br>NPort 6610-8                                                                                                                                                                                                                                                                                                                          |

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | NPort 6610-16<br>NPort 6610-32<br>NPort 6610-8-48V<br>NPort 6610-16-48V<br>NPort 6610-32-48V<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32<br>NPort 6650-8-48V<br>NPort 6650-8-HV-T<br>NPort 6650-16-48V<br>NPort 6650-16-HV-T<br>NPort 6650-32-48V<br>NPort 6650-32-HV-T                                                                                                                   |
| CBL-RJ458P-Cisco-BK-180 | 8-pin RJ45 to 8-pin RJ45 serial cable, 1.8 m, for Cisco console port<br><br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6610-8-48V<br>NPort 6610-16-48V<br>NPort 6610-32-48V<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32<br>NPort 6650-8-48V<br>NPort 6650-8-HV-T<br>NPort 6650-16-48V<br>NPort 6650-16-HV-T<br>NPort 6650-32-48V<br>NPort 6650-32-HV-T |

## 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                                                         |
| <b>Power Adapters</b> |                                                                                                                                         |
| 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>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>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>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>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>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>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>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>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>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>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>Applicable Models:<br>NPort 6450-T  |

## Power Cords

|                  |                                                                                                                                                                                                |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PWC-C13AU-3B-183 | Power cord with AU plug, 1.83 m<br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32 |
| PWC-C13CN-3B-183 | Power cord with three-prong CN plug, 1.83 m<br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-8-T                                          |

|                           |                                                                                                                                                                                                                  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32                                                                                                                                                                |
| PWC-C13EU-3B-183          | Power cord with EU/KR plug, 1.83 m<br><br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32            |
| PWC-C13JP-3B-183          | Power cord with JP plug plug, 7A/125V, 1.83 m<br><br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32 |
| PWC-C13UK-3B-183          | Power cord with UK plug, 1.83 m<br><br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32               |
| PWC-C13US-3B-183          | Power cord with US plug, 1.83 m<br><br>Applicable Models:<br>NPort 6610-8<br>NPort 6610-16<br>NPort 6610-32<br>NPort 6650-8<br>NPort 6650-8-T<br>NPort 6650-16<br>NPort 6650-16-T<br>NPort 6650-32               |
| 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>Applicable Models:<br>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 6610-16  
NPort 6610-32  
NPort 6610-32-48V  
NPort 6610-16-48V  
NPort 6610-8-48V  
NPort 6650-8  
NPort 6650-8-T  
NPort 6650-16  
NPort 6650-16-T  
NPort 6650-32  
NPort 6650-8-48V  
NPort 6650-8-HV-T  
NPort 6650-16-48V  
NPort 6650-16-HV-T  
NPort 6650-32-48V  
NPort 6650-32-HV-T

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