



**Tripp Lite**  
1111 W. 35th Street  
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## Spine-Leaf MPO Panel with Key-Up to Key-Down MTP/MPO Adapter - 12F MTP/MPO-APC M/M, 8F OS2 Singlemode, 16 x 16 Ports, 1U

MODEL NUMBER: N48LSS-16X16



1U network panel replaces a standard MTP/MPO-to-LC cross-connect with MTP/MPO ports to eliminate rack clutter.

### Features

#### 1U Spine-Leaf Panel Simplifies Your Rack Connections and Helps You Keep Costs Down

This network patch panel is designed for spine and leaf architecture, which replaces a standard MTP/MPO-to-LC cross-connect with MTP/MPO ports and helps eliminate significant rack clutter. This data center network technology provides high-bandwidth, low-latency, non-blocking server-to-server connectivity, which saves you money, simplifies your rack cabling and improves network performance.

#### All-in-One Solution Consists of 2 Switch Layers: Spine and Leaf

The groundbreaking N48LSS-16X16 contains a complete spine leaf mesh topology, resulting in less labor, less troubleshooting and fewer errors. It features spine ports in the front that mate with a spine switch, as well as leaf ports in the rear that mate with a leaf switch. No LC-to-LC patching, double cassette or user cable shuffling is required with spine and leaf architecture, which improves link performance.

#### Easy to Mount in Just 1U of Rack Space

This aluminum panel with key-up to key-down MTP/MPO adapter features 32 12-fiber MTP/MPO-APC male ports: 16 front spine ports and 16 rear leaf ports. The N48LSS-16X16 mounts into 1U of space in an EIA-standard 19-inch rack. Cable managers in both front and rear help organize cabling and eliminate unsightly clutter.

### Highlights

- 1U patch panel designed for cost-effective spine and leaf cabling
- Replaces standard MTP/MPO-to-LC cross-connect to reduce troubleshooting and labor
- All-in-one solution for 9/125 singlemode OS2 8-fiber network cabling
- Front and rear wire managers help organize cables and eliminate clutter
- Mounts easily into 1U of space in your EIA-standard 19 in. rack or cabinet

### Package Includes

- N48LSS-16X16 Spine-Leaf MPO Panel, 16 x 16 Ports, 1U
- Owner's manual

## Specifications

| OVERVIEW     |              |
|--------------|--------------|
| UPC Code     | 037332268785 |
| Product Type | Spine-Leaf   |
| Technology   | Fiber        |



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|                                 |                               |
|---------------------------------|-------------------------------|
| Optical Mode                    | OS2                           |
| Panel Dimensions                | 17.56" X 1.73" X 14.76"       |
| Fiber Panel Ports               | (32) MTP/MPO                  |
| Mode Type                       | Singlemode                    |
| <b>Firmware / Software Docs</b> |                               |
| Offset Ports                    | No                            |
| <b>PHYSICAL</b>                 |                               |
| Primary Form Factor             | Rackmount                     |
| Color                           | Black                         |
| Connector Color                 | Black                         |
| Clad Diameter (microns)         | 125                           |
| Core Diameter (microns)         | 9                             |
| Number of Fibers                | 8                             |
| Total Number of Ports           | 32                            |
| Rack Height                     | 1U                            |
| Shipping Dimensions (hwd / in.) | 3.60 x 14.90 x 20.90          |
| Shipping Weight (lbs.)          | 7.50                          |
| <b>ENVIRONMENTAL</b>            |                               |
| Operating Temperature Range     | -4 to 140 F (-20 to 60 C)     |
| Storage Temperature Range       | -4 to 140 F (-20 to 60 C)     |
| Operating Humidity Range        | 5% to 85% RH, Non-Condensing  |
| Storage Humidity Range          | 5% to 85% RH, Non-Condensing  |
| <b>COMMUNICATIONS</b>           |                               |
| Network Compatibility           | 100 Gbps; 40 Gbps; 400 Gbps   |
| Wavelength                      | 1310nm; 1550nm                |
| Attenuation @ 1310NM            | 0.36dB/KM                     |
| Attenuation @ 1550NM            | 0.22dB/KM                     |
| Insertion Loss                  | 0.70dB                        |
| <b>CONNECTIONS</b>              |                               |
| Number of Ports                 | 32                            |
| Side A - Connector 1            | (16) 12-STRAND MTP/MPO (MALE) |
| Side B - Connector 1            | (16) 12-STRAND MTP/MPO (MALE) |



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|                                      |                             |
|--------------------------------------|-----------------------------|
| Endface Polish                       | APC                         |
| <b>FEATURES &amp; SPECIFICATIONS</b> |                             |
| Keystone Jacks                       | No                          |
| Push/Pull Tabs                       | No                          |
| All-in-One Kit                       | Yes                         |
| Down-Angled Ports                    | No                          |
| Built-in Cables                      | Yes                         |
| Color-Coded Connections              | No                          |
| Numbered Ports                       | Yes                         |
| EIA/TIA 2/32 Spacing                 | No                          |
| Labeled Ports                        | Yes                         |
| Network Speed Support                | 100 Gbps; 40 Gbps; 400 Gbps |
| Optical Port                         | MPO/MTP                     |
| Breakout                             | No                          |
| Trunk                                | No                          |
| <b>STANDARDS &amp; COMPLIANCE</b>    |                             |
| Product Compliance                   | RoHS; CE (Europe); REACH    |
| <b>WARRANTY</b>                      |                             |
| Product Warranty Period (Worldwide)  | Lifetime limited warranty   |

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