



**Tripp Lite**  
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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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