

# Spine-Leaf MPO Panel with Key-Up to Key-Down MTP/MPO Adapter - 12F MTP/MPO-APC M/M, 8F OS2 Singlemode, 32 x 32 Ports, 1U

MODEL NUMBER: N48LSS-32X32



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-32X32 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 64 12-fiber MTP/MPO-APC male ports: 32 front spine ports and 32 rear leaf ports. The N48LSS-32X32 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-32X32 Spine-Leaf MPO Panel, 32 x 32 Ports, 1U
- Owner's manual

## Specifications

OVERVIEW	
UPC Code	037332268792
Product Type	Spine-Leaf
Technology	Fiber
Optical Mode	OS2



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Panel Dimensions	17.56" X 1.73" X 14.76"
Mode Type	Singlemode
<b>Firmware / Software Docs</b>	
Offset Ports	No
<b>CONNECTIONS</b>	
Number of Ports	64
Side A - Connector 1	(32) 12-STRAND MTP/MPO (MALE)
Side B - Connector 1	(32) 12-STRAND MTP/MPO (MALE)
Endface Polish	APC
<b>PHYSICAL</b>	
Primary Form Factor	Rackmount
Color	Black
Rack Height	1U
Connector Color	Black
Clad Diameter (microns)	125
Core Diameter (microns)	9
Number of Fibers	8
Total Number of Ports	64
Shipping Dimensions (hwd / in.)	3.50 x 15.10 x 21.00
Shipping Weight (lbs.)	8.10
Unit Dimensions (hwd / in.)	1.730 x 14.760 x 18.970
Panel Style	Spine-Leaf
<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	0.36 dB / km
Attenuation @ 1550NM	0.22 dB / km
Insertion Loss	0.70 dB



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

1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
<https://tripplite.eaton.com>

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