

## Spine-Leaf MPO Panel with Key-Up to Key-Up MTP/MPO Adapter - 12F MTP/MPO-PC M/M, 8F OM4 Multimode, 32 x 32 Ports, 1U

MODEL NUMBER: N48LSM-32X32



### 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 50/125 multimode OM4 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

- N48LSM-32X32 Spine-Leaf MPO Panel, 32 x 32 Ports, 1U
- Owner's manual

1U network panel replaces a standard MTP/MPO-to-LC cross-connect with MTP/MPO Elite 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 N48LSM-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 leaf architecture, which improves link performance.

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

This aluminum panel with key-up to key-up MTP/MPO adapter features 64 12-fiber Elite MTP/MPO-PC male ports: 32 front spine ports and 32 rear leaf ports. The N48LSM-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.

## Specifications

OVERVIEW	
UPC Code	037332268778
Product Type	Spine-Leaf
Technology	Fiber

Optical Mode	OM4
Panel Dimensions	17.56" X 1.73" X 14.76"
Fiber Panel Ports	(64) MTP/MPO
Mode Type	Multimode
<b>Firmware / Software Docs</b>	
Offset Ports	No
<b>PHYSICAL</b>	
Primary Form Factor	Rackmount
Color	Black
Rack Height	1U
Connector Color	Gray
Clad Diameter (microns)	125
Core Diameter (microns)	50
Number of Fibers	8
Total Number of Ports	64
Shipping Dimensions (hwd / in.)	3.50 x 15.00 x 21.00
Shipping Weight (lbs.)	8.10
<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	1300nm; 850nm
Attenuation @ 850NM	3.0 dB / km
Attenuation @ 1300NM	1.0 dB / km
Insertion Loss	0.35 dB
<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	PC
<b>FEATURES &amp; SPECIFICATIONS</b>	
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
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Compliance	RoHS; CE (Europe); REACH
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	Lifetime limited warranty