FIBER™ MOUNTAIN
The Glass Core™ Company

High Density Fiber Port Aggregation and Breakout

Fiber Mountain's L-Series Fiber Port Aggregators (FPAs) provide fiber breakout and aggregation for a wide range of networking devices, simplifying installation and maintenance of increasingly dense fiber networks. All L-Series models provide LED indicators for each port, which can be controlled remotely via Fiber Mountain's AllPath Director (APD) orchestration software, or locally from the attached network device. For example, the LS-2520 is designed specifically to act as a port replicator for Cisco's NCS 1002.

LS-2525 Rear View

LS-2525 Front View

Occupying only 2 RU, L-Series FPAs can break out or aggregate 24-fiber MPO, 12-fiber MPO or 8-fiber MPO interfaces to LC or MPO connectivity. FPAs are available in single mode OS2 fiber or multimode OM4 fiber, and FPAs are available with several fiber mapping options, simplifying compliance. Built-in power redundancy protects management functionality, allowing power to be supplied from two different sources.

Configurable LEDs

Each port on both the front and rear faceplates has an associated tri-color LED, supporting red, green and amber. Depending on the selected configuration options, each LED's color may be set to replicate the associated network device's port status for port extender functionality, or may be controlled remotely for purposes such as technician guidance, or any other defined criteria.

Fiber Mountain's Glass Core Orchestration—Layer 1 SDN

AllPath Director SDN orchestration software provides network-wide visibility, including discovery of products in the L-Series FPA family. Applications are designed to take advantage of the total network view, so tasks such as provisioning end-to-end connectivity are easily performed via point & click workflows. APD also provides documentation management with port labeling, reservation, asset management and more. Security is improved with audit trails providing historical records of provisioning and monitoring changes. A graphical rendering of the layer 1 topology provides a network-wide view of the physical layer, with enhanced features such as Path Finder, which draws out the connection path from a selected port to the destination.

Use Cases:

- Port Replication, extending attached devices port to the FPA

- Aggregation to high density 24-fiber trunk cabling

- Breakout of high density fiber interfaces to LC or 8-fiber MPO interfaces

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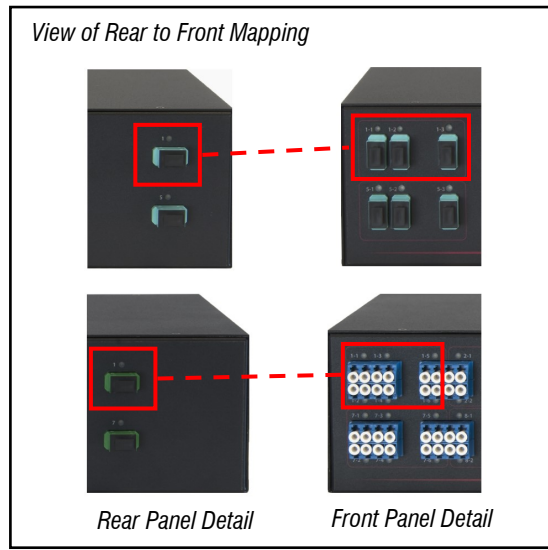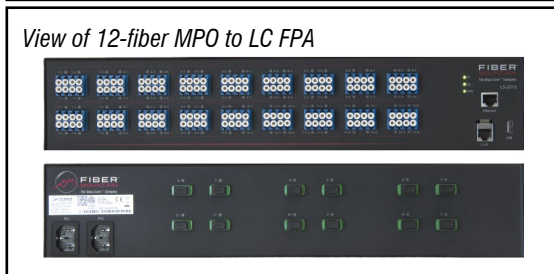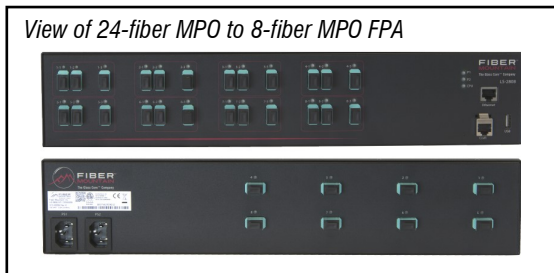For more information, visit **www.fibermountain.com**

Options for Fiber Mountain L-Series FPAs

Catalog Number	Fiber Type	Port Configuration		Fiber Mapping	Description
Single Mode		**Front Ports**	**Rear Ports**		
LS-2520-001	SM OS2	80xDuplex LC	20xMPO8	Type A	160xLC fibers to 20xMPO-8 ports, QSFP+ or QSFP28 Breakout for Cisco NCS
LS-2525-001	SM OS2	80xDuplex LC	20xMPO8	Type A	160xLC fibers to 20xMPO-8 ports
LS-2518-001	SM OS2	72xDuplex LC	18xMPO8	Type A	144xLC fibers to 18xMPO-8 ports
LS-2512-001	SM OS2	72xDuplex LC	12xMPO12	Type A	144xLC fibers to 12xMPO-12 ports
LS-2512-002	SM OS2	72xDuplex LC	12xMPO12	Type C	144xLC fibers to 12xMPO-12 ports
LS-2506-001	SM OS2	72xDuplex LC	6xMPO24	Type HD-C	144xLC fibers to 6xMPO-24 ports
LS-2608-001	SM OS2	24xMPO8	8xMPO24	Type HD-A	24xMPO-8 ports to 8xMPO-24 ports
Multimode		**Front Ports**	**Rear Ports**		
LS-2720-001	MM OM4	80xDuplex LC	20xMPO8	Type A	160xLC fibers to 20xMPO-8 ports, QSFP+ or QSFP28 Breakout for Cisco NCS
LS-2725-001	MM OM4	80xDuplex LC	20xMPO8	Type A	QSFP+ or QSFP28 Breakout
LS-2718-001	MM OM4	72xDuplex LC	18xMPO8	Type A	144xLC fibers to 18xMPO-8 ports
LS-2706-001	MM OM4	72xDuplex LC	6xMPO24	Type HD-C	144xLC fibers to 6xMPO-24 ports
LS-2808-001	MM OM4	24xMPO8	8xMPO24	Type HD-A	24xMPO-8 ports to 8xMPO-24 ports
LS-2712-001	MM OM4	72xDuplex LC	12xMPO12	Type A	144xLC fibers to 12xMPO-12 ports
LS-2712-002	MM OM4	72xDuplex LC	12xMPO12	Type C	144xLC fibers to 12xMPO-12 ports

Other configurations & fiber mapping options are also available. All L-Series FPAs can be used for breakout, aggregation or port replication.

View of 24-fiber MPO to 8-fiber MPO FPA

View of 12-fiber MPO to LC FPA

View of Rear to Front Mapping

Rear Panel Detail   *Front Panel Detail*

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Single Mode Fiber Specifications: Internal fiber is single mode OS2. The rear MPO connectors are green, the front LC connectors are blue.	Characteristic	Single Mode MPO - APC	Single Mode LC - UPC
	Insertion Loss (Single Fiber Max.)	0.35dB	0.30dB
	Insertion Loss (All Fibers Typ.)	0.10dB	0.10dB
	Return Loss (Min.)	>55dB	>50dB
Multimode Fiber Specifications: Internal fiber is multimode OM4. Front and rear MPO connectors are aqua.	Characteristic	Multimode MPO	Multimode LC
	Insertion Loss (Single Fiber Max.)	0.35dB	0.30dB
	Insertion Loss (All Fibers Typ.)	0.10dB	0.10dB
	Return Loss (Min.)	>20dB	>20dB

Chassis Specifications:	
Weight	10.4 lbs
Rack Mounting	Fits 19", 21" and 23" racks
Dimensions (H/W/D)	3.46" x 17.65" x 8.72" (8.79 cm x 44.83 cm x 22.15 cm)
Redundant AC Power	<25 Watts
Regulatory and Certifications	UL 62368-1 IEC 62368-1 CSA C22.2#62368-1 EN 55032 EN 55024 FCC 47 CFR Part 15 Subpart B ICES-003 GR-63 Humidity, Temperature, Vibration testing

Accessories

Fiber Mountain also supplies:

- Ultra high quality fiber optic cabling, available in single mode and multimode; plenum, riser, LSZH
- 21" and 23" rack-mounting ears for all L-Series panels (19" are standard and included)

About Fiber Mountain:

Glass Core represents a new way of thinking about data center infrastructure. With integrated software and hardware innovations, Glass Core infrastructure enables intelligent Layer 1 SDN switching with high-density optical connectivity for a software-controlled physical layer and efficient network organization and scalability.

Services: Fiber Mountain provides a variety of value added services from hands-on training, to 24x7 technical support. Contact Fiber Mountain for a schedule of available services.

Warranty: Return to factory hardware repair or replacement for one year.

Contact Fiber Mountain, Inc. to order: Email: Sales@FiberMountain.com - Phone: 1-800-480-9424