

A Managed Fiber Patch Panel with a



Introducing Sensus by Fiber Mountain, an intelligent high-density managed patching solution for securing & automating fiber connectivity.

Introduction

The Fiber Mountain Sensus is a managed patched panel solution for securing & automating fiber connectivity. When utilized alongside AllPath® Director (APD), it revolutionizes the physical infrastructure of your data center, offering realtime insights and dynamically mapping intricate connections amid a multitude of cables. Sensus LC and MPO ports can detect cable presence and read cable information directly from any cable enabled with Fiber Mountain ICID (Intelligent Connection Identification) technology. A Sensus chassis consists of three modules: a management module with an integrated touchscreen display, and two interchangeable patching modules. Patching modules are available with front-to-rear and front access-only fiber connections for Single Mode (OS2) and Multimode (OM4) fiber with 48, 72, 96, 144, and 192 fiber density configurations.

Regulatory & Certifications					
UL 60950					
IEC 62368-1					
CSA C22.2#62368-1					
EN 55022 Class B					
CENELAC EN 55032					
CENELAC EN 55054					
FCC 47 CFR Part 15 Subpart B					
FCC Part 15 Subpart C 15.225					
CISPR 32					
ETSI EN 301 489-1					

Chassis Specifications					
Weight	4.15 lbs				
Rack Mounting	Fits 19", 21" and 23" racks				
Slots	3 (2 patching modules, 1 management module)				
Dimensions (H/W/D)	3.45" x 17.44" x 8.67" (8.67 cm x 44.30 cm x 22.02 cm)				
Management Module Specifications					
Weight	3.2 lbs				
Dimensions	3.23" x 4.31" x 8.77" (8.20 cm x 10.95 cm x 22.28 cm)				
Patching Module Specifications					
Weight	3.6 lbs				
Dimensions	3.23" x 6.35" x 8.87" (8.20 cm x 16.13 cm x 22.53 cm)				
Technical Specifications					
Voltage	100-240 VAC @ 0.25A, 50/60 Hz				
Fuse Rating	1.6A, 250V Time Lag				
Power Consumption	<25 Watts				

ETSI EN 301 489-3



Sensus™ Patching Modules with Front-to-Front Mapping

Catalog No.	Fiber Type	Port Configuration		Fiber Mapping	Color	Example Use Cases	
Single Mode		Front A	Front B				
DX-2674-002	SM OS2	36xDuplex LC	3xMPO-24	Type HD-C	White	LC Aggregation to Single Mode 24-Fiber Cable	
DX-2672-002	SM OS2	36xDuplex LC	6xMPO-12	Type A	White	LC Aggregation to Single Mode 12-Fiber Cable	
DX-2646-002	SM OS2	24xDuplex LC	6xMPO-8	Type A	White	LC Aggregation to Single Mode 8-Fiber Cable	
DX-2884-002	SM OS2	12xMPO-08	4xMPO-24	Type HD-A	White	Breakout for MPO-24 to MPO-8	
Multimode		Front A	Front B				
DX-2774-002	MM OM4	36xDuplex LC	3xMPO-24	Type HD-C	White	LC Aggregation to Single Mode 24-Fiber Cable	
DX-2772-002	MM OM4	36xDuplex LC	6xMPO-12	Type A	White	LC Aggregation to Single Mode 12-Fiber Cable	
DX-2746-002	MM OM4	24xDuplex LC	6xMPO-8	Туре А	White	LC Aggregation to Single Mode 8-Fiber Cable	

Sensus™ Patching Modules with Front-to-Rear Mapping

Catalog No.	Fiber Type	Port Configuration		Fiber Mapping	Color	Example Use Cases	
Single Mode		Front	Rear				
DX-2484-002	SM OS2	48xDuplex LC	4xMPO-24	Type HD-C	White	LC Aggregation to Single Mode 24-Fiber Cable	
DX-2444-002	SM OS2	24xDuplex LC	2xMPO-24	Type HD-C	White	LC Aggregation to Single Mode 24-Fiber Cable	
DX-2482-002	SM OS2	48xDuplex LC	8xMPO-12	Type A	White	LC Aggregation to Single Mode 12-Fiber Cable	
DX-2442-002	SM OS2	24xDuplex LC	4xMPO-12	Type A	White	LC Aggregation to Single Mode 12-Fiber Cable	
DX-2488-002	SM OS2	48xDuplex LC	12xMPO-8	Type A	White	LC Aggregation to Single Mode 8-Fiber Cable	
DX-2446-002	SM OS2	24xDuplex LC	6xMPO-8	Туре А	White	LC Aggregation to Single Mode 8-Fiber Cable	
DX-2864-002	SM OS2	12xMPO-8	4xMPO-24	Type HD-A	White	Breakout for MPO-24 to MPO-8	
DX-2834-002	SM OS2	6xMPO-8	2xMPO-24	Type HD-A	White	Breakout for MPO-24 to MPO-8	
DX-2655-002	SM OS2	36xDuplex LC	36xDuplex LC	Type A-A	White	Breakout for LC-to-LC	
Multimode		Front	Rear				
DX-2584-002	MM OM4	48xDuplex LC	4xMPO-24	Type HD-C	White	LC Aggregation to Single Mode 24-Fiber Cable	
DX-2544-002	MM OM4	24xDuplex LC	2xMPO-24	Type HD-C	White	LC Aggregation to Single Mode 24-Fiber Cable	
DX-2582-003	MM OM4	48xDuplex LC	8xMPO-12	Туре С	White	LC Aggregation to Single Mode 12-Fiber Cable	
DX-2542-002	MM OM4	24xDuplex LC	4xMPO-12	Туре А	White	LC Aggregation to Single Mode 12-Fiber Cable	
DX-2588-002	MM OM4	48xDuplex LC	12xMPO-8	Туре А	White	LC Aggregation to Single Mode 8-Fiber Cable	
DX-2546-002	MM OM4	24xDuplex LC	6xMPO-8	Туре А	White	LC Aggregation to Single Mode 8-Fiber Cable	
DX-2964-002	MM OM4	12xMPO-8	4xMPO-24	Type HD-A	White	Breakout for AP-4240, MPO-24 to MPO-8	
DX-2934-002	MM OM4	6xMPO-8	2xMPO-24	Type HD-A	White	Breakout for AP-4240, MPO-24 to MPO-8	
DX-2755-002	MM OM4	36xDuplex LC	36xDuplex LC	Туре А-А	White	Breakout for LC-to-LC	



Sensus™ Chassis & Management Module

Catalog No.	Description
DX-2000-002	Sesnsus Chassis, White*
DX-2100-002	Management Module with Display, White*

^{*}Both a Chassis and a Management Module are needed for a complete intelligent solution.

Management Module

The Sensus management module contains

- Near-Field Communications (NFC) technology to read ICIDenabled cables
- Four-inch (4") LCD touchscreen
- Built-in AC input power redundancy to protect Sensus from a power failure
- PoE+ (Power Over Ethernet, Plus) an alternate power source



Figure 1: Sensus™ Management Module

Patching Modules

- Hot-swappable break out or aggregate fiber patch panels
- LC Duplex to LC Duplex
- MPO8 to 4xLC Duplex
- MPO12 to 6xLC Duplex
- MPO24 to 12x LC Duplex
- MPO24 to 3xMPO

For more information, visit:

www.fibermountain.com

Single Mode OS2 fiber or Multimode OM4 fiber options

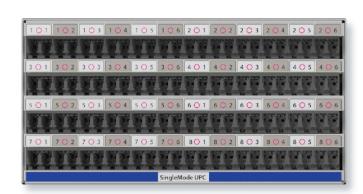


Figure 2: Sensus™ Patching Module



Sensus Accessories

Mounting Ears

Mounting ears are used to mount a Sensus on to a rack for easy data center deployment and equipment access.

- Compatibility: Sensus can be easily mounted on a standard 19" and 23" rack, providing flexibility for various installation setups
- Configuration Options: Available in 2RU and 4RU configurations

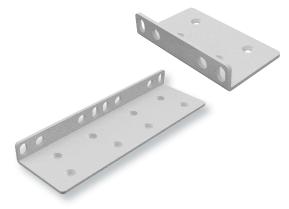


Figure 3: Mounting Ear

Sensus™ Front Cover

- Cable Management: Designed with cable management in mind, helping to keep your installation tidy and organized
- Transparent Front Lid: Featuring a transparent front lid, which allows you to easily view and access deployed connections
- Configuration Options: Available in 2RU and 4RU configurations, catering to different installation needs



Figure 4: Sensus Front Cover

Sensus™ Rear Fiber Management

- Cable Management: Provides cable management ability at the rear to keep connections organized
- Multiple Configurations: Available in four different configurations to accommodate your preferences and requirements:
 - 2RU
 - 2RU Compact
 - 4RU
 - 4RU Compact
- Fiber Optic Cable Splicing: Suitable for splicing fiber optic cables, ensuring reliable connectivity and data transmission



Figure 5: Sensus Rear Fiber Management Tray



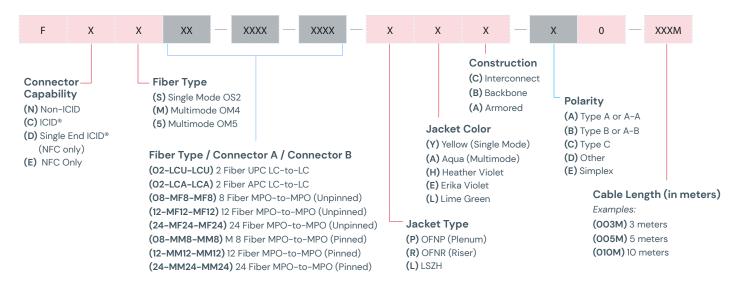
ICID-Enabled Cables with NFC

- · Couple with Fiber Mountain products to provide a managed physical layer
- Capable of handling high-speed 10G, 25G, 40G, or 100G applications
- High quality bend-insensitive cables
- Robust LC Duplex and MPO connectors to minimize insertion and return loss
- Single Mode or Multimode with either A, B, or C polarity
- UL-rated Plenum, Riser, or LSZH jackets



Figure 6: ICID Enabled Cables

Fiber Cable Catalog Number Configuration



	Characteristic	MPO - APC	LC - UPC
Single Mode	Insertion Loss (single fiber max.)	0.35 dB	0.30 dB
Internal fiber is Single Mode OS2. Both MPO and LC Adapters are black.	Insertion Loss (all fibers type.)	0.10 dB	0.10 dB
	Return Loss (min.)	> 55 dB	> 50 dB
Multimode	Insertion Loss (single fiber max.)	0.35 dB	0.30 dB
Internal fiber is Multimode OM4. Both MPO and LC Adapters are black.	Insertion Loss (all fibers type.)	0.10 dB	0.10 dB
	Return Loss (min.)	> 20 dB	> 20 dB