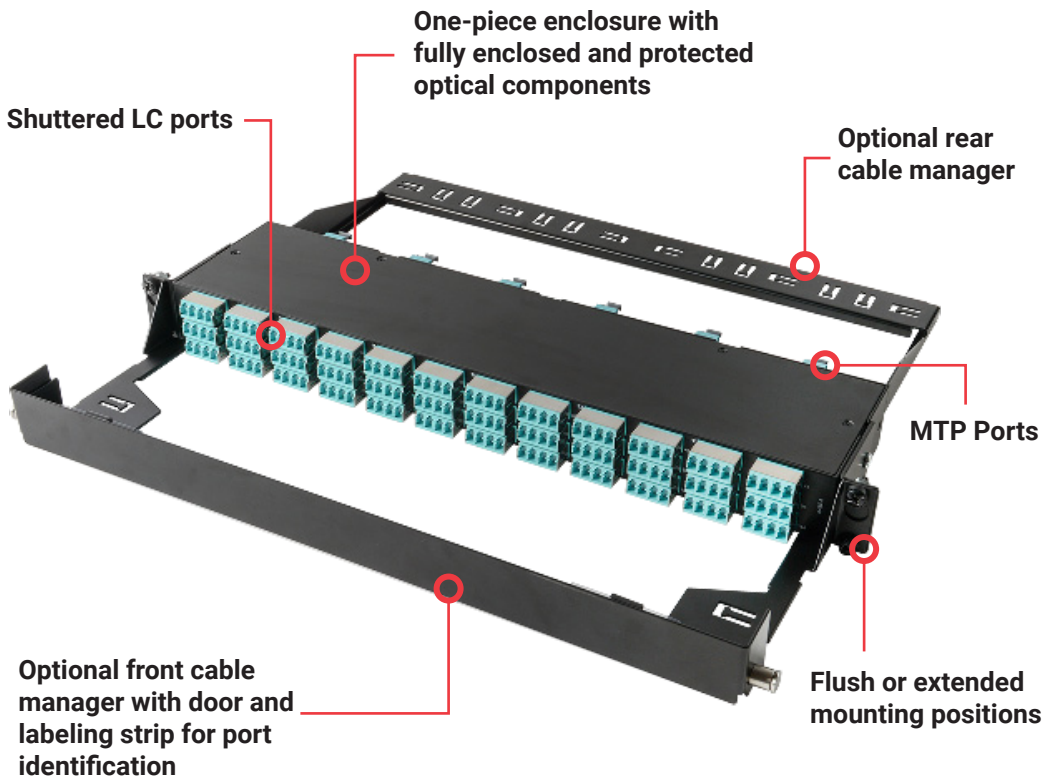# LightStack™ UHD Plug and Play Fiber Enclosure

Available In - Europe | Eurasia | India | Middle East | Africa | Latin America | Asia Pacific | China

The LightStack UHD Fiber Enclosure is a cost-effective and space-saving solution for ultra high density plug and play fiber applications. This compact enclosure packs 144 fibers in 1U with MTP-to-LC connectivity all in a 5 in. (128mm) deep unit. The simplified, self-contained design optimizes shipping, handling, and installation especially in space-limited environments. The LightStack UHD Enclosure provides low loss performance to accommodate a wide range of channel configurations for both Multimode and Singlemode applications. The integrated shuttered LC adapters feature an internal door that opens without touching the connector end face and springs back to the closed position automatically, protecting empty ports from dust and debris. Optional front and rear cable managers are available to control and protect cables. The front cable manager features an integrated door which is removable to allow full access to the LC connectivity. The door swings open to allow visibility to the integrated labeling strip. The rear cable manager simply hooks into the back of the enclosure to support incoming MTP cable assemblies.

One-piece enclosure with fully enclosed and protected optical components

Shuttered LC ports

Optional rear cable manager

MTP Ports

Optional front cable manager with door and labeling strip for port identification

Flush or extended mounting positions

Features
- Ultra high density 144 fibers in 1U
- Compact LC to MTP transition enclosure
- Low loss optical performance
- Base-8 and Base-12 versions
- Optional cable management
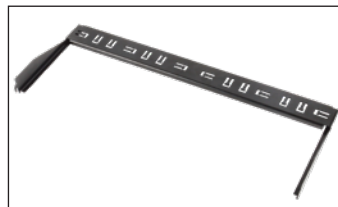- Singlemode and Multimode options Available

Patch Cords
Siemon's LC BladePatch® push-pull patch cords are highly recommended to provide optimal accessibility. An extraction tool is required when using traditional LC connectors.

Front Cable Management
Removable front door on optional front cable manager allows full access to LC ports

Rear Cable Management
Optional rear cable manager with toolless attachment

Easy Access MTP Ports
MTP ports on back for trunk connections

Space Saving Design
Compact footprint with 5 in. (128mm) depth to fit shallow applications

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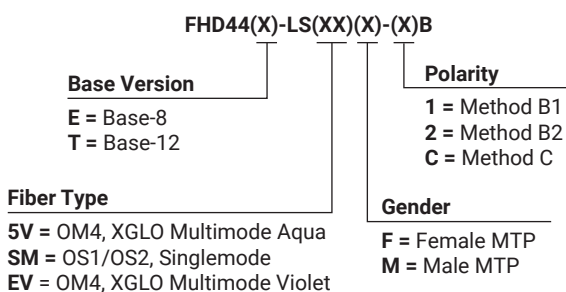# Product Information

Mechanical Specifications and Compliance

Height (nominal)	1U
Height (actual)	1.74 in. (4.24mm)
Enclosure Dimensions	5.10 in. (128.7mm) D x 19 in. (482.6mm) W x 1.74 in. (4.24mm) H
Label Size	8.05 in. x .925 in. (204.5mm x 23.5mm)
Rack Mounting Brackets	2 horizontal positions
Mounting	CEA-310-E 19 in. (482.6mm) rack
Front Cable Manager Dimensions	5.6 in. (143.4mm) D x 19 in. (482.6mm) W x 1.7 in. (43.2mm) H
Rear Cable Manager Dimensions	6.7 in. (170.6mm) D x 16.9 in. (428.8mm) W x 1.2 in. (30.5mm) H
Color (Enclosure)	Black (RAL 9005)
Color (Ports)	Multimode: Aqua LC, Aqua MTP method C, Gray MTP method B Singlemode: Blue LC, Black MTP
Panel Material	16 gauge cold rolled steel
Green Features	RoHS, Lead-Free, Halogen-Free, PVC Free
Compliance	ISO/IEC 11801-1 ED1.0, TIA-568.3-D

Optical Performance Specifications

	Insertion Loss (dB)	Return Loss (dB)	Insertion Loss (dB)	Return Loss (dB)
	Multimode		**Singlemode**	
MTP	0.20	20	0.60	60
LC	0.15	30	0.40	55
MTP to LC Enclosure	0.35	20	1.00	55

Part Numbers

LightStack UHD Enclosures

FHD44(X)-LS(XX)(X)-(X)B

Base Version

E = Base-8
T = Base-12

Polarity

1 = Method B1
2 = Method B2
C = Method C

Fiber Type

5V = OM4, XGLO Multimode Aqua
SM = OS1/OS2, Singlemode
EV = OM4, XGLO Multimode Violet

Gender

F = Female MTP
M = Male MTP

Cable Managers

Cable managers help route cables while ensuring proper bend radius. Front manager attaches to rack screws, while rear manager has toolless connections to the back of the enclosure.

Part Number	Description
FHD-FCM-1U-01	Front cable manager with door
FHD-RCM-1U-01	Rear cable manager

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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