FieldSmart® Fiber Crossover Multi Purpose (FxMP)
Patch Panels

CLEARFIELD

Application

Provides an interconnect or cross-connect environment for up to 288 SC ports or 576 LC ports of high density fiber for inside plant environments and outside FDH deployments.

Optical component chassis feature of the FxMP Panel is available for horizontally mounted modules.

Description

The FieldSmart FxMP Panel is a high density, low maintenance fiber distribution panel for use in a data style rack/cabinet, a 19" (482.60 mm) or a 23" (584.20 mm) frame. Utilizing the Clearview® Cassette, FieldSmart FxMP Panels are intelligently designed to provide the user with superior fiber access and craft-friendly, radius protected, fiber management for routing and deploying fiber jumpers.

Stand Alone Panel in a 19" or 23" (482.60 mm or 584.20 mm) Frame
When you already have the frame and want to add just a panel or two of incremental fiber management, the FxMP is configured with front and rear protection blocks for complete slack storage and physical fiber protection.

Stand Alone Panel in an OSP Active Cabinet
Make the crossover into the OSP with the identical product. Patch only environments are supported without additional components, while a rear protection block enables patch and splice (Clearfield's in-cassette splicing solution) configurations. The common architecture saves you time and money in reducing inventory costs and shorter training period.

Stand Alone Panel in a Data Rack/Cabinet
When you already have a data rack or cabinet and simply need to add fiber management, the FxMP is available to mount in this smaller footprint, providing all the fiber protection you need without the added cost. Available in black.

Optical Component Chassis
An optical component chassis is mounted in a rack and holds optical components modules. Fiber jumper management is provided from the front of the optical component module to the interbay cable management panels. Optical components are splitters or WDM's that are housed in the flexible Clearview Cassette. The FieldSmart modules require an Optical Component Chassis to house the modules in a frame.

Top Protection - Closed

Top Protection - Black

Features and Benefits

Integrity
- RUS listed
- Designed, tested and certifed to Telcordia GR-63 & GR-1089 NEBS Level 3
- Fiber cable is certified to Telcordia GR-20 & GR-409
- Terminations designed, tested and certified to Telcordia GR-326
- Supports all industry standard singlemode connectors
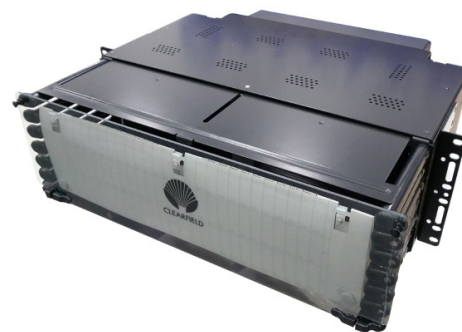
Protection
- Front cover is easily removable and installation of cassettes is simple with no tools needed
- Individual radius fingers provide organized and intuitively managed fiber jumpers and minimize pile-up
- Slide rails for cassettes provide a stable attachment utilizing the cassette T-rail, and are incorporated into the rear protection of panels
- Pre-terminated OSP buffer tubes are protected by bend-limited tubing and have their slack stored inside the panel to protect against environmental and human damage
- The top metal protective cover slides out for top protection over the fiber cables and can sit in 3 positions: closed, open 3.25" (82.55 mm) and open 4.77" (121.16 mm)

Access
- Front access to pre-terminated assemblies with removable adapter plates for testing, cleaning and maintenance
- The entire 12-fiber Clearview Cassette is removable for hot-swap changes
- Front and rear access to panel
- New larger designation cards provide greater writing area for standard and high density panels
- Reversible Mounting Ears provide added flexibility

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Investment
- Using the Clearview Cassette, all fibers are deployed in increments of 12, allowing users to scale from 12 ports to full configuration without additional equipment

Optical Component Investment
- Virtually any combination of split ratios and number of components can be achieved in one of the four Clearview Cassette sizes.
- An economical dense and user-friendly solution for deploying splitters or WDM's in a central office design.
- 1RU optical components available for smaller, limited deployments.
- Horizontal mounting versions of the FieldSmart FxMP Panel with Optical Component Chassis capabilities are available in five sizes to accommodate any size project.
- Allow for grow-as-you-go design to reserve rack space for future growth.

Patch Panel Technical Specifications

FieldSmart FxMP Patch Panels				
Port Density	24/48	72/144	144/288	288/576
Dimensions	1.75" H (44.45 mm)	3.5" H (88.90 mm)	6" H (152.40 mm)	11" H (279.40 mm)
Ratings	Compliant to Telcordia GR-63, GR-1089, GR-449, GR-20 and GR-409			
Cassette Types Supported	Clearview® Blue with 1 mounting tab			
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC, MPO			
Cable Types	Indoor Riser, Indoor Plenum, Indoor/Outdoor, Outdoor (Riser/Non-Rated), Outdoor Armored (Riser/Non-Rated), FieldShield®			
Splice Capacity	12-24 splices in each Clearview Cassette			
Storage Capacity	One meter of 250 µm fiber			
Front Protection	3.25" (82.6 mm) or 4.77" (121.16 mm) radius fingers			
Color	Almond or black			
Material	Steel and aluminum with powder paint coating			

Optical Component Chassis Technical Specifications

FieldSmart FxMP Optical Component Chassis		
Dimensions	Clearview Cassette: 1 High	0.8" H x 8.75" W x 8" D (20.32 mm x 222.25 mm x 203.20 mm)
	Clearview Cassette: 2 High	1.6" H x 8.6" W x 7.06" D (40.64 mm x 218.44 mm x 179.32 mm)
	Clearview Cassette: 3 High	2.41" H x 8.6" W x 7.06" D (61.21 mm x 218.44 mm x 179.32 mm)
	Clearview Cassette: 6 High	4.84" H x 8.6" W x 7.06" D (122.94 mm x 218.44 mm x 179.32 mm)
	1RU (19")(482.60 mm)	1.75" H x 19" W x 15.02" D (44.45 mm x 482.60 mm x 381.51 mm)
	1RU (23")(584.20 mm)	1.75" H x 23" W x 15.02" D (44.45 mm x 584.20 mm x 381.51 mm)
Ratings	Fully certified to NEBS Level 3 Telcordia GR-63, GR-1089, GR-449, GR-20 and GR-409	
Cassette Types Supported	Clearview® Blue, Clearview xPAK	
Material	Steel and aluminum with almond powder coating. Also available in black.	

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FieldSmart Chassis Capacity - Number of Components

Component Type	Horizontal 1.75'/1RU	Horizontal 3.5'/2RU	Horizontal 6"	Horizontal 11"
FSAN WDM	8	24	48	96
1 x 2	8	24	48	96
1 x 3	6	18	36	72
1 x 4	4	12	24	48
1 x 8	2	6	12	24
1 x 16	0	2	6	12
1 x 32	0	2	4	8
1 x 64	0	0	2	4

Configured Part Numbers - Patch and Splice/Optical Component Chassis

Disclaimer/Note: Paper configurator shown is for reference only and should not be used to configure a saleable product configuration. All options shown on paper configurators may not be available or compatible with other options listed. Please contact your Clearfield representative for assistance in product configurations.

G - ___ ___ ___ - ___ ___ ___ - ___ ___ ___ - ___ Z Z

[1] [2] [3]   [4]   [5] [6] [7]   [8]

1 Select Chassis Size *

J = 1.75" (44.45 mm)(1 RU)   24/48 port maximum (SC/LC)
E = 3.50" (88.90 mm)(2 RU)   72/144 port maximum (SC/LC)
G = 6" (152.40 mm)   144/288 port maximum (SC/LC)
H = 11" (279.40 mm)   288/576 port maximum (SC/LC)

2 Select Panel Type

B = Patch and splice
C = MPO (12 fiber)
D = Tie
F = HD Patch and Splice
J = HD Tie

3 Select Color and Rod Size

A = Almond 3.25" (82.55 mm)
B = Almond 4.77" (121.16 mm)
C = Black 3.25" (82.55 mm)
D = Black 4.77" (121.16 mm)

4 Select Port Count

X X X = port count in increments of 12
X X X = port count in increments of 24 (HD Version)

5 Select Connector Style

A = SC/UPC
C = SC/APC
F = LC/UPC
H = LC/APC
Z = None

6 Select Mode / Type

0 = No Fiber
1 = Singlemode - non-ribbon
2 = Singlemode - ribbon

7 Select Jacket Construction

F = Loose Tube
Z = N/A

8 Select Rear Protection

A = Slack Basket
B = Rear Cover

* Max port counts are for SC and LC adapters.
For ST and FC adapters the max port counts are:

1RU = 24   4" = 48   11" = 192
2RU = 48   6" = 96

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Configured Part Numbers - Patch Only

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G - ___ ___ ___ - ___ ___ ___ - ___ ___ ___ - ___ Z ____ XXXM or XXXF

1 **2** **3** **4** **5** **6** **7** **8** **9**

1 Select Chassis Size *

J = 1.75" (44.45 mm)(1 RU) 24/48 port maximum (SC/LC)
E = 3.50" (88.90 mm)(2 RU) 72/144 port maximum (SC/LC)
G = 6" (152.40 mm) 144/288 port maximum (SC/LC)
H = 11" (279.40 mm) 288/576 port maximum (SC/LC)

2 Select Panel Type

A = Patch Only
E = HD Patch Only (LC)

3 Select Color and Rod Size

A = Almond 3.25" (82.55 mm)
B = Almond 4.77" (121.16 mm)
C = Black 3.25" (82.55 mm)
D = Black 4.77" (121.16 mm)

4 Select Port Count

X X X = port count in increments of 12
X X X = port count in increments of 24 (HD version)

5 Select Connector Style

A = SC/UPC
C = SC/APC
F = LC/UPC
H = LC/APC
Z = None

6 Select Mode / Type

0 = No Fiber
1 = Singlemode - non-ribbon
2 = Singlemode - ribbon

7 Select Cable Construction

A = Indoor riser rated (IFC)
B = OSP (riser rated, indoor/outdoor)
C = Indoor, plenum (IFC)
E = OSP (non-rated)
F = Patch and splice
M = OSP (armored)
Z = N/A

8 Select Rear Protection

A = Slack Basket
B = Rear Cover

9 Select Cable Exit **

1 = Top right   5 = Top
2 = Top left   6 = Bottom
3 = Bottom right   7 = Right
4 = Bottom left   8 = Left

XXXM or XXXF

XXXM = Length in meters
XXXF = Length in feet

* Max port counts are for SC and LC adapters.
For ST and FC adapters the max port counts are:

1RU = 24   4" = 48   11" = 192
2RU = 48   6" = 96

** Cable exit is defined by which direction the cable
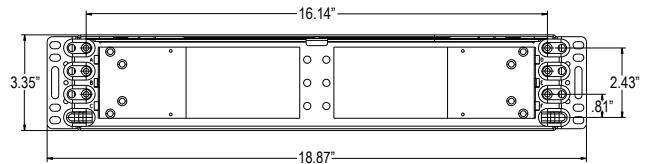exits the panel when viewing it from the back.
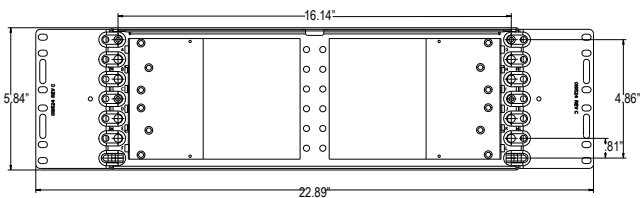
Configurations

FieldSmart Fiber Crossover Multi Purpose (FxMP) Front Views
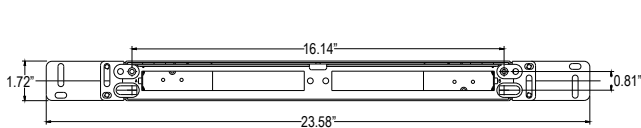
24 Port

72 Port

144 Port
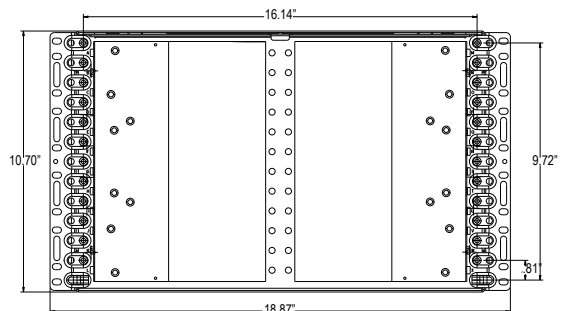
288 Port

Configurations
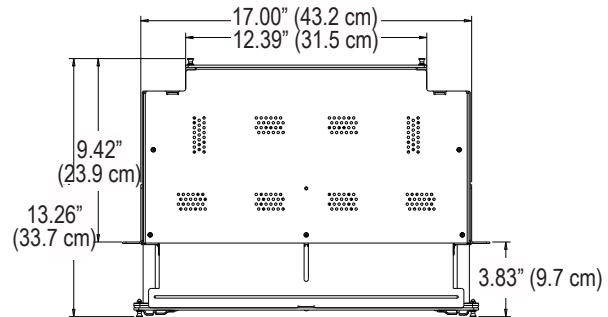
FieldSmart Fiber Crossover Multi Purpose (FxMP) Top Views

17.00" (43.2 cm)
12.39" (31.5 cm)
11.48" (29.2 cm)
15.32" (38.9 cm)
3.83" (9.7 cm)
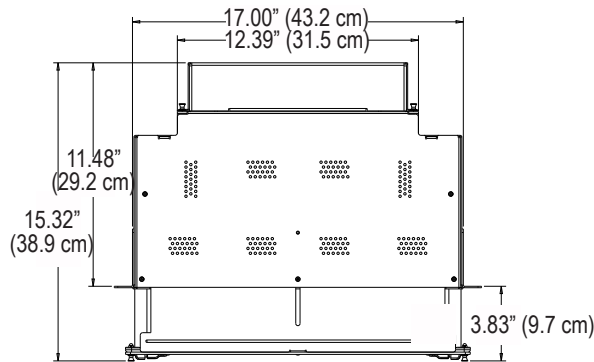
Bulkhead with Slack Basket - Top View
Shown with Short Rods (3.25")

17.00" (43.2 cm)
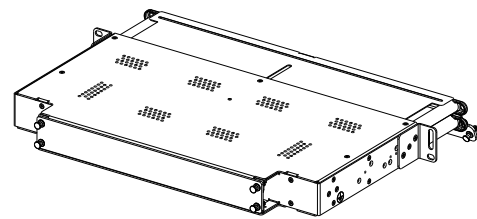12.39" (31.5 cm)
9.42" (23.9 cm)
13.26" (33.7 cm)
3.83" (9.7 cm)

Bulkhead with Rear Door - Top View
Shown with Short Rods (3.25")

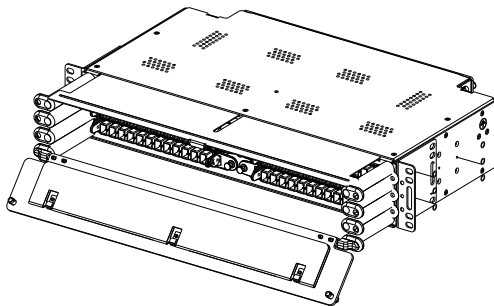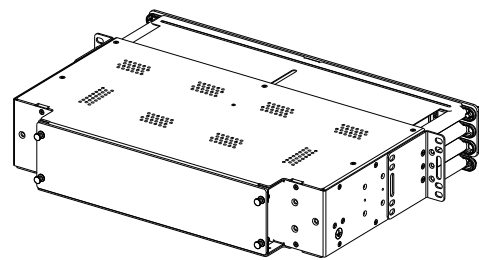**FieldSmart Fiber Crossover Multi Purpose (FxMP) 24 Port Fiber Panels**
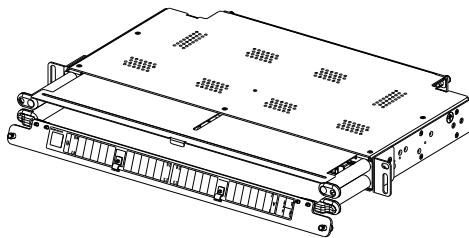
24 Port
Front View

24 Port
Rear View with Rear Protection

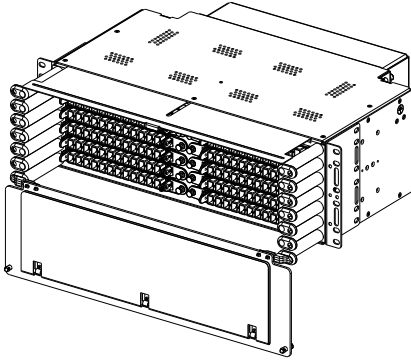**FieldSmart Fiber Crossover Multi Purpose (FxMP) 72 Port Fiber Panels**

72 Port
Front View
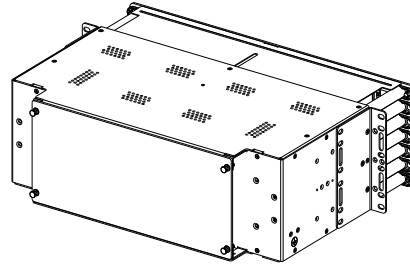

72 Port
Rear View with Rear Protection

Configurations

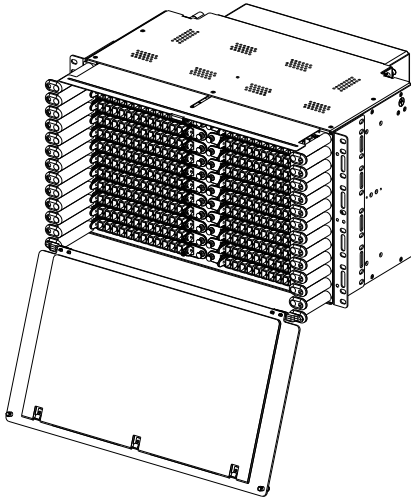**FieldSmart Fiber Crossover Multi Purpose (FxMP) 144 Port Fiber Panels**

144 Port
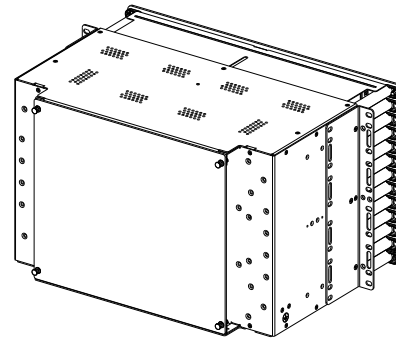Front View with Slack Basket

144 Port
Rear View with Rear Protection

FieldSmart Fiber Crossover Multi Purpose (FxMP) 288 Port Fiber Panels

288 Port
Front View with Slack Basket

288 Port
Rear View with Rear Protection