FieldSmart® Fiber Crossover Distribution System (FxDS)
Patch Panels

Application

Provides an interconnect or cross-connect environment for up to 288 ports of high density fiber in central office and outside plant environments.

Description

The FieldSmart FxDS Panel is a high density, low maintenance fiber distribution panel for use in a 19" or 23" (482.60 mm or 584.20 mm) frame. Utilizing the Clearview® Cassette, FieldSmart FxDS 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. The optional metal chassis allows panels to be deployed on an industry standard frame or for the ultimate in cost efficiencies, it can be ordered with only the bulkhead.

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 FxDS is configured with front and rear protection blocks for complete slack storage and physical fiber protection.

Stand Alone Panel in a Data Cabinet
When you already have a data cabinet and simply need to add fiber management, the FxDS is configured without the front protection block, providing all the fiber protection you need without the added cost.

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.

Features and Benefits

Integrity
- RUS listed
- Compliant to Telcordia GR-63, GR-449, GR-20 and GR-409
- Optical component configurations use Telcordia GR 1221/1209 compliant devices
- Terminations are designed and tested to Telcordia GR-326
- Supports all industry standard singlemode and multimode connectors

Protection
- Front cover is easily removable with no tools needed
- Individual radius fingers provide organized and intuitively managed fiber jumpers and minimize pile-up
- The Clearview Cassette houses critical circuits by 12-fiber sub-units or buffer tubes
- Ruggedized cable clamp protects against twisting and pistoning at the assembly breakout point
- Pre-terminated OSP buffer tubes are protected by bend-limited tubing and have their slack stored inside panel to protect against environmental and human damage

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
- On-frame or off-frame splicing configurations support cable constructions up to 144-fiber

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

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Technical Specifications

FieldSmart FxDS Patch Panels					
Port Density	24	72	96	144	288
Dimensions	1.75" H (44.45 mm)	3.5" H (88.90 mm)	4" H (101.60 mm)	6" H (152.40 mm)	11" H (279.40 mm)
Ratings	Compliant to Telcordia GR-63, GR-449, GR-20 and GR-409				
Cassette Types Supported	Clearview® Blue				
Connector Types	SC/UPC, SC/APC, LC/UPC, LC/APC, FC/UPC, FC/APC, ST/UPC, MPO				
Cable Types	Indoor Riser, Indoor Plenum, Indoor/Outdoor, Outdoor (Riser/Non-Rated), Outdoor Armored (Riser/Non-Rated), FieldShield®				
Splice Capacity	12 splices in each Clearview Cassette				
Storage Capacity	One meter of 250 µm fiber				
Front Protection	4.75" (120.65 mm) radius fingers				
Material	Steel and aluminum with almond powder coating				

Configured Part Numbers

G ____ ____ - ____ ____ ____ - ____ ____ ____ - ____ A ____ ____ XXXM or XXXF

[1] [2] [3] [4] [5] [6] [7] [8] [9]

1 Select Protection

M = Front protection only
N = Rear protection only
P = Front and rear protection
R = Bulkhead only

2 Select Chassis Size *

J = 1.75" (44.45 mm)(1 RU) 24 port maximum (SC/LC)
E = 3.50" (88.90 mm)(2 RU) 72 port maximum (SC/LC)
K = 4" (101.60 mm)   96 port maximum (SC/LC)
G = 6" (152.40 mm)   144 port maximum (SC/LC)
H = 11" (279.40 mm)   288 port maximum (SC/LC)

3 Select Port Count

X X X = port count in increments of 12

4 Select Connector Style

A = SC/UPC   H = LC/APC
C = SC/APC   J = FC/UPC
F = LC/UPC   M = ST/UPC

5 Select Mode / Type

1 = Singlemode - non-ribbon
2 = Singlemode - ribbon
3 = Multimode (62.5)
5 = Multimode (50)
7 = Multimode (50) Laser Om3

6 Select Cable Construction

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

7 Select Panel Type

A = Patch only (1 multifiber cable)
F = Patch and splice (slack basket)

Note: To use the slack basket the panel must have rear protection.

Note: All FxDS panels are designed to fit in 19" and 23" (482.60 mm and 584.20 mm) frames and are front load only.

8 Select Cable Exit **

1 = Top right   5 = Top
2 = Top left   6 = Bottom
3 = Bottom right   7 = Right
4 = Bottom left   8 = Left
Z = N/A – Use for patch & splice

9 Clearview Blue Cassettes

B = Clearview Blue Cassettes

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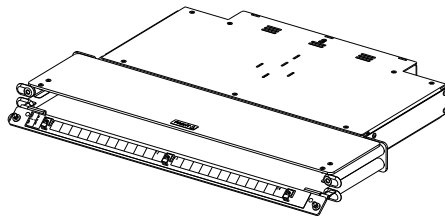
1RU = 24   4" = 48   11" = 192
2RU = 48   6" = 96

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

FieldSmart® Fiber Crossover Distribution System (FxDS)
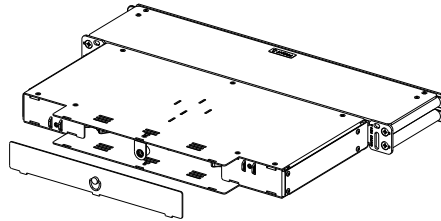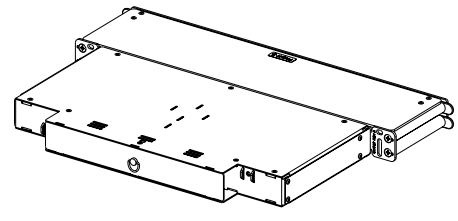## *Patch Panels*

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Configurations

FieldSmart Fiber Crossover Distribution System (FxDS) 24 Port Fiber Panels
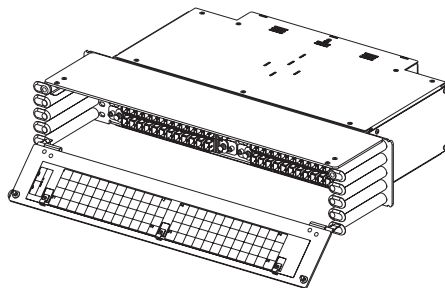

24 Port
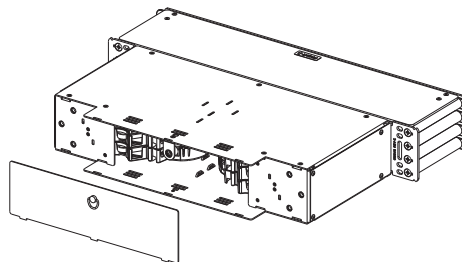Front View

24 Port
Rear View - Patch Only
with rear protection

24 Port
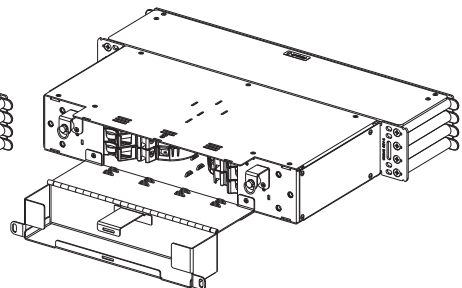Rear View - Patch and Splice
with slack basket

FieldSmart Fiber Crossover Distribution System (FxDS) 72 Port Fiber Panels
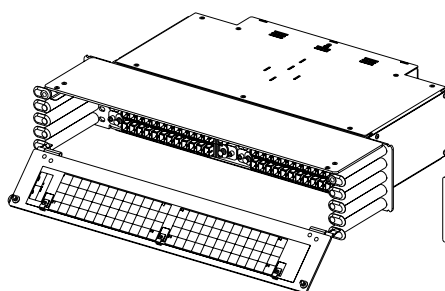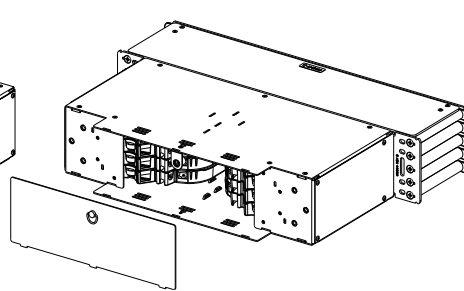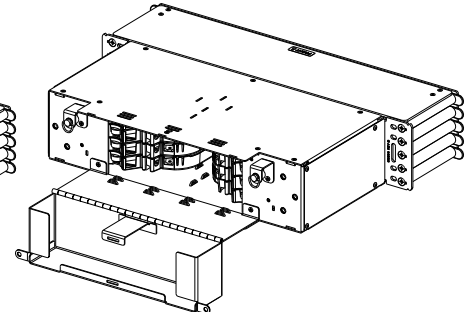

72 Port
Front View

72 Port
Rear View - Patch Only
with rear protection

72 Port
Rear View - Patch and Splice
with slack basket

FieldSmart Fiber Crossover Distribution System (FxDS) 96 Port Fiber Panels

96 Port
Front View
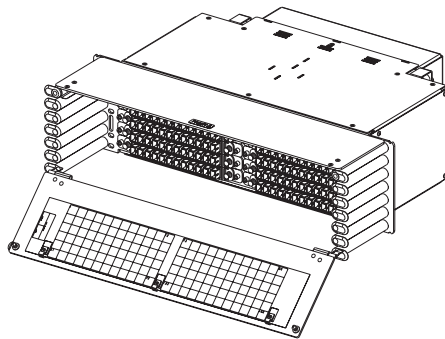
96 Port
Rear View - Patch Only
with rear protection

96 Port
Rear View - Patch and Splice
with slack basket

FieldSmart® Fiber Crossover Distribution System (FxDS)
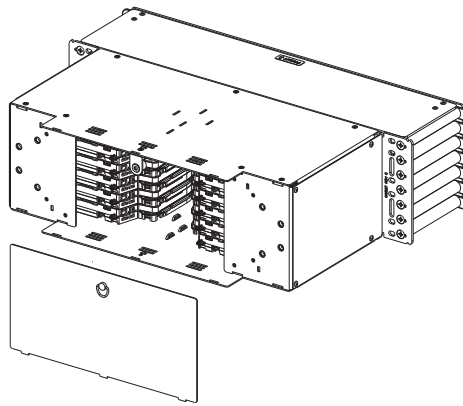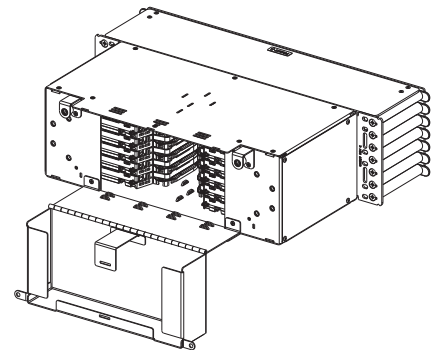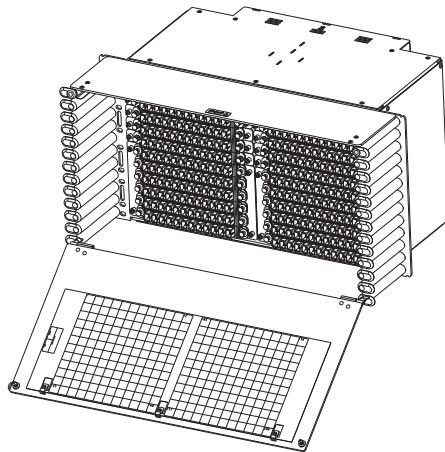## *Patch Panels*

Configurations

FieldSmart Fiber Crossover Distribution System (FxDS) 144 Port Fiber Panels

144 Port
Front View

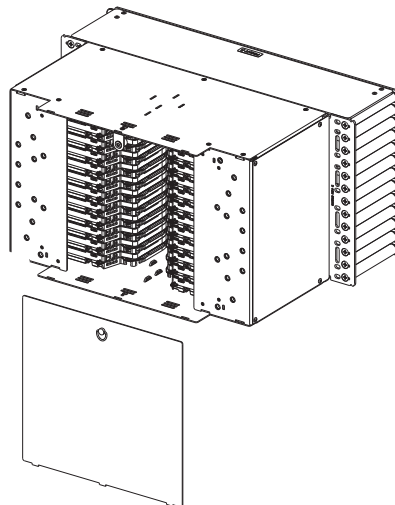144 Port
Rear View - Patch Only
with rear protection

144 Port
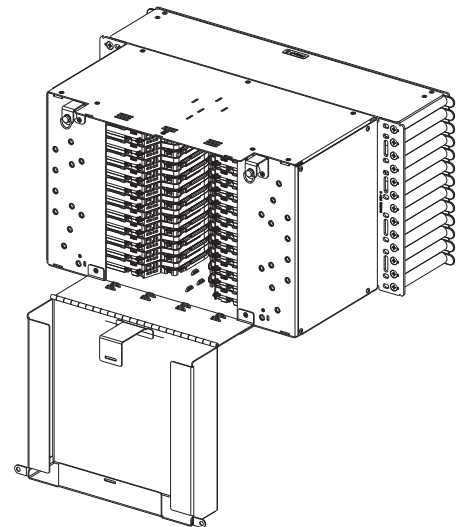Rear View - Patch and Splice
with slack basket

FieldSmart Fiber Crossover Distribution System (FxDS) 288 Port Fiber Panels

288 Port
Front View

288 Port
Rear View - Patch Only
with rear protection

288 Port
Rear View - Patch and Splice
with slack basket