

# Opticom® Rack Mount Fiber Enclosures

## specifications

Rack mount fiber enclosures shall house, organize, manage and protect fiber optic cable, terminations, splices, connectors and patch cords. Enclosure shall accommodate all Panduit trunk cables, connectors, patch cords, fiber adapter panels (FAP) and fiber mount panels (FMP). The enclosure shall include integral cable management and bend radius control for transition to vertical cable managers. Fiber optic enclosures shall be constructed of steel material. Molded front and back doors shall be removable for cabling and connector installation. 1 RU and 2 RU enclosures shall provide full front and rear access with a drawer that slides forward and backward. 3 RU and 4 RU enclosures shall feature a fixed bulkhead design. Enclosure shall have multiple knockouts for a variety of trunk cable entry points.



## technical information

<b>Dimensions:</b>	FRME1U: 1.74"H x 17.38"W x 14.2"D (44mm x 441.5mm x 361mm), 1 RU
	FRME2U: 3.48"H x 17.38"W x 14.2"D (88mm x 441.5mm x 361mm), 2 RU
	FRME3: 5.00"H x 17.0"W x 11.8"D (127mm x 432mm x 299mm), 3 RU
	FRME4: 6.62"H x 17.0"W x 11.8"D (168mm x 432mm x 299mm), 4 RU
<b>Mounting:</b>	Universal brackets (included) allow enclosure to fit in 19" or 23" rack
<b>Accessories:</b>	Mounting hardware and accessory kit with labels included

## key features and benefits

<b>Works with all Panduit® Opticom® LC, SC, ST, MT-RJ and MTP* Connector Fiber Adapter Panels</b>	Provides versatility and flexibility with a fully modular solution for a variety of fiber optic patching, terminating, and splicing applications
<b>Integral cable management</b>	Provides proper cable routing pathways and ensures minimum cable bend radius for end-to-end signal integrity
<b>Bi-directional pullout drawers (FRME1U and FRME2U)</b>	Improves front access to patch cords and connectors and rear access to terminations, slack storage and trunk cable/inter-connect cables; faster and easier installation for lower total installed cost and reduced maintenance costs
<b>Hinged, removable front and rear doors</b>	Enables access to fiber optic patch cords without needing to move drawer for easier moves, adds, and changes
<b>One-to-one patching and splicing capability (FRME1U and FRME2U)</b>	Yields higher port densities for fusion splice applications with one-to-one patching-to-splicing fiber count for up to 72 splices per RU
<b>TIA-606-A compatible labeling</b>	Standards-based, mechanically printed labeling of fiber connectivity, patchfields, and enclosures enables clear and accurate labeling for easy moves, adds and changes

## applications

Opticom® Rack Mount Fiber Enclosures provide a flexible system suitable for managing fiber terminations, connections, and patching in all types of applications. The enclosure can serve as a transition from backbone cabling to distribution switching in telecommunications rooms or closets, an interconnect to active equipment in server cabinets or switch racks, or can be specified for cross-connect or inter-connect use in a main distribution area or horizontal distribution area.

The enclosures can manage from 12 to 72 fibers in 1 RU and up to 288 fibers in 4 RU when used with standard FAP and FMP series adapter panels loaded with LC, SC, ST, MT-RJ, or MTP\* style adapters. Integral cable management, bend radius control, and slack management features protect fiber optic cables, patch cords, and connectors ensuring end-to-end signal integrity for increased network reliability.

\*MTP is a registered trademark of US Conec Ltd.

### Opticom® Rack Mount Fiber Enclosures

<b>3 FAP openings (72 fibers, 1 RU):</b>	FRME1U
<b>6 FAP openings (144 fibers, 2 RU):</b>	FRME2U
<b>9 FAP openings (216 fibers, 3 RU):</b>	FRME3
<b>12 FAP openings (288 fibers, 4 RU):</b>	FRME4

### Opticom® Fiber Adapter Panels

<b>12 duplex LC, 10Gig™:</b>	FAP12WAQDLCZ
<b>6 duplex LC, 10Gig™:</b>	FAP6WAQDLCZ
<b>12 duplex LC:</b>	FAP12WEIDLC
<b>6 duplex LC:</b>	FAP6WEIDLC
<b>6 duplex SC, 10Gig™:</b>	FAP6WAQDSCZ
<b>3 duplex SC, 10Gig™:</b>	FAP3WAQDSCZ
<b>6 duplex SC:</b>	FAP6WEIDSC
<b>3 duplex SC:</b>	FAP3WEIDSC
<b>6 simplex ST:</b>	FAP6WST
<b>6 duplex MT-RJ:</b>	FMP6WMTRJ
<b>MPO/MTP*:</b>	FAP4WBLMTP
<b>MPO/MTP*:</b>	FAP6WBLMTP

### Opti-Core® Patch Cords

<b>12 fiber MTP* to MTP*:</b>	F^12D5-5M**Y
<b>Duplex LC to LC:</b>	F^E10-10M**Y
<b>Duplex SC to SC:</b>	F^D3-3M**Y
<b>Duplex SC to LC:</b>	F^D3-10M**Y

### Splice Modules (For Use with FRME1U and FRME2U Only)

<b>Splice module (fusion):</b>	FOSMF
<b>Splice module (mechanical):</b>	FOSMM

### Tools and Accessories

<b>Panduit connector removal tool:</b>	PCRT1
<b>Fiber slack spool 1 RU:</b>	FMS1
<b>Fiber slack spool 2 RU:</b>	FMS2
<b>Bend radius clip:</b>	FEBRC

^Substitute for fiber type:  
X = (OM3/OM4 – 10Gig™ 50/125µm)  
5 = (OM2 – 50/125µm)  
6 = (OM1 – 62.5/125µm)  
9 = (OS1 – 9/125µm)

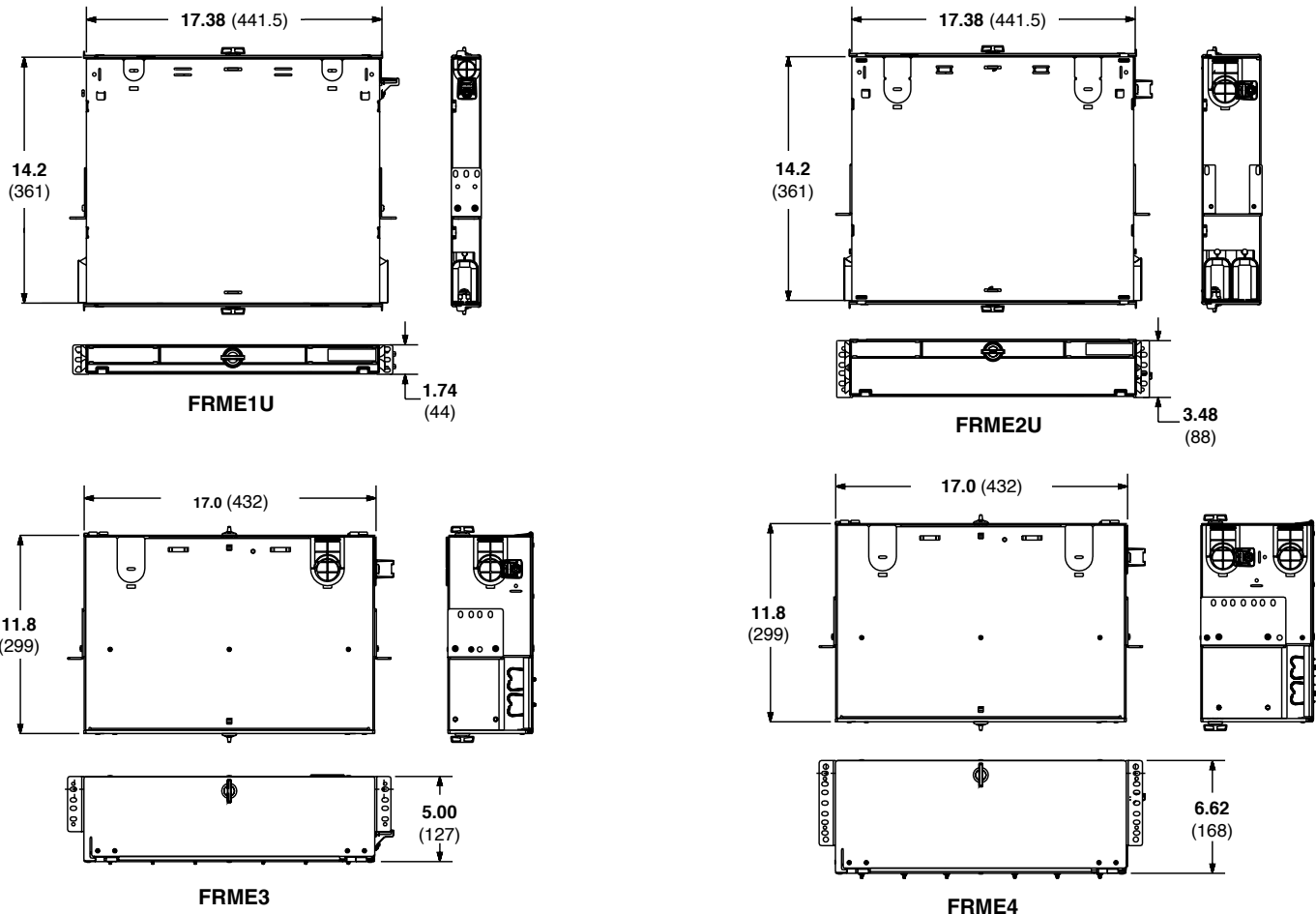
\*\*Substitute for length in meters; 1, 2, 3, 5 and 10 are standard lengths. Contact Panduit Customer Service for other available lengths.

# Opticom® Rack Mount Fiber Enclosures

## Fiber Capacities

Fiber Adapter Panel Type	Enclosure and Fiber Count			
	FRME1U (holds up to 3 FAPs)	FRME2U (holds up to 6 FAPs)	FRME3 (holds up to 9 FAPs)	FRME4 (holds up to 12 FAPs)
Twelve duplex LC adapters	72	144	216	288
Eight duplex LC adapters	48	96	144	192
Six duplex LC adapters	36	72	108	144
Six duplex SC adapters	36	72	108	144
Four duplex SC adapters	24	48	72	96
Three duplex SC adapters	18	36	54	72
Eight simplex ST adapters	24	48	72	96
Six simplex ST adapters	18	36	54	72
Six duplex MT-RJ adapters	36	72	108	144
Six simplex FC adapters	18	36	54	72

## Opticom® Rack Mount Fiber Enclosures



Dimensions are in inches (Dimensions in parentheses are metric).

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