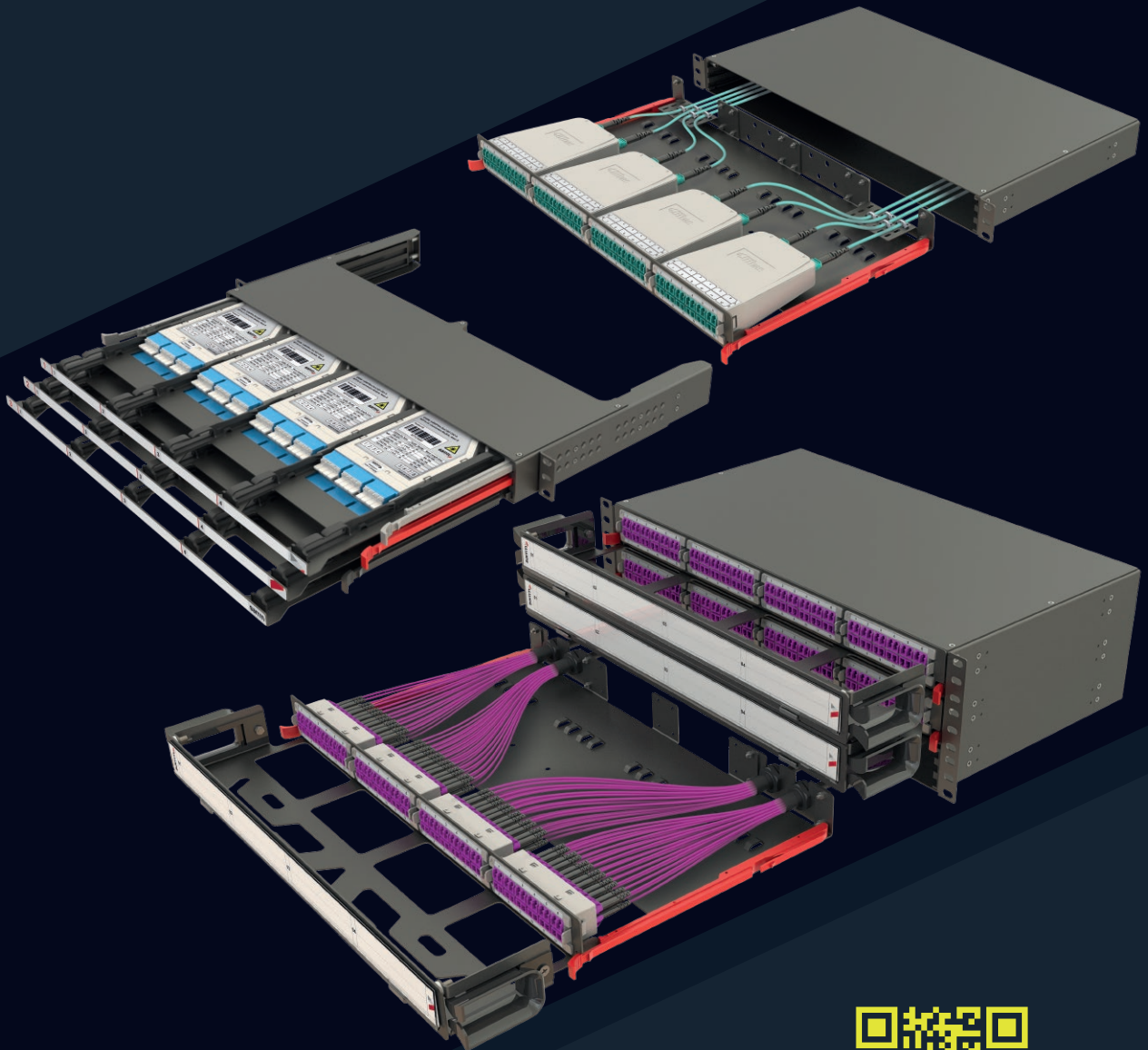


# FIBER OPTIC DATA CENTER SOLUTIONS



Same Products  
Online

Samm Teknoloji

[telecom.samm.com](https://telecom.samm.com)



Founded in 2003, SAMM Teknoloji has grown into a company that manufactures optical cables, optical cable assemblies and various telecommunication products.

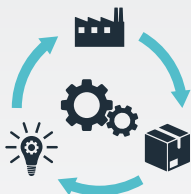
SAMM is delivering innovative, customized and competitive products and latest solutions in the high technology telecommunications infrastructure and data center sectors, thereby enabling its customers to stay ahead of their peers in technology and network efficiency.

SAMM Teknoloji has become one of Europe's leading companies in capacity, technology and new product development by continuously investing in machinery, technology and people. Samm Teknoloji has also been certified as an R&D center since 2017.



### 20+ Years Experience

With more than 200 employees and 2 factories, we have achieved several significant projects in telecommunication fiber optic infrastructure.



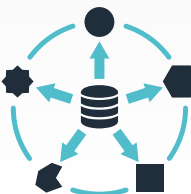
### World Class Production

With systematic and scientific methods, we always focus on reaching the highest quality in our fiber optic cable production and assembly lines.



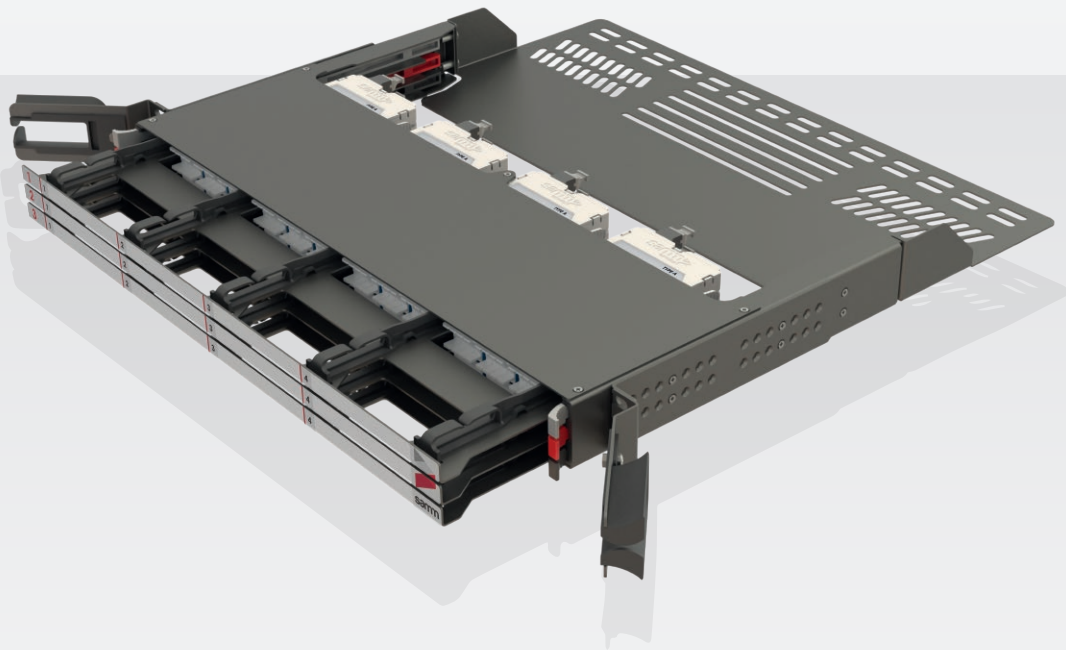
### Connecting Continentals

An advantageous shipping location, at the intersection of Asia, Europe and the Middle-East.



### Innovative Solutions

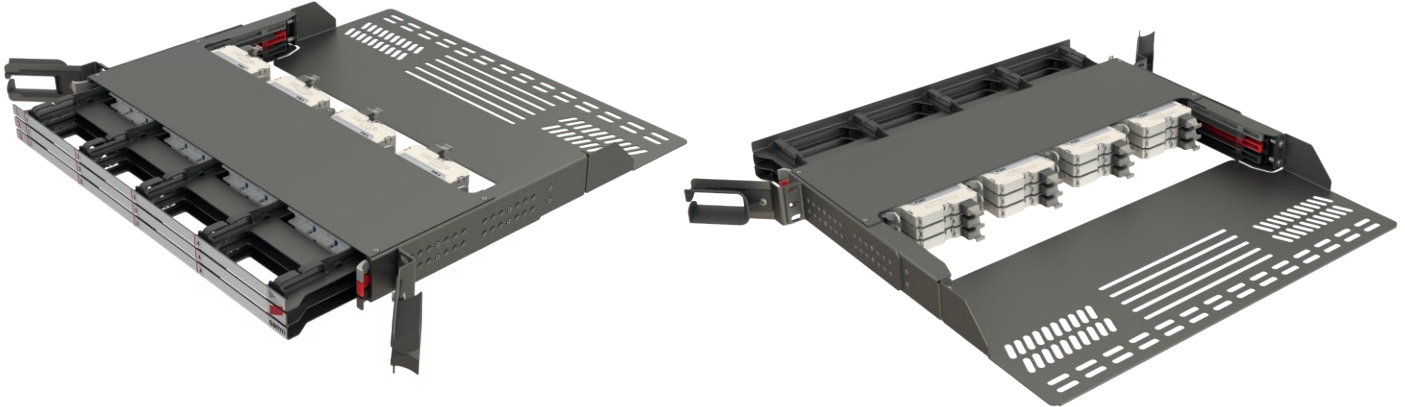
We are passionate about responding to customer demand and keeping pace with the ever evolving telecommunication and fiber optic technologies.



# FIBER OPTIC DATA CENTER SOLUTIONS

## Modular Ultra High Density Panels | G-Connect Series

These panels are designed to accommodate Base-8 and Base-12 variety solutions in a high density and new generation structure. The modular construction combines highest port density with installation ease. A maximum of 144 LC connections can be stacked in 1U height, within 12 UHD cassettes.

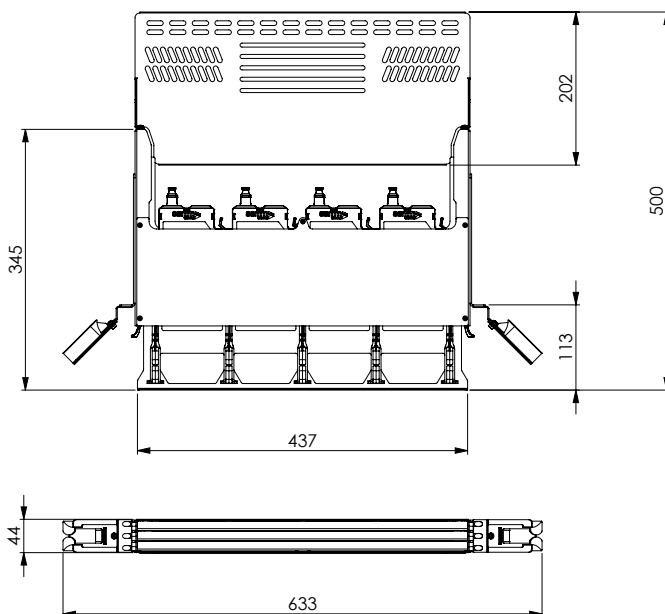


### Features

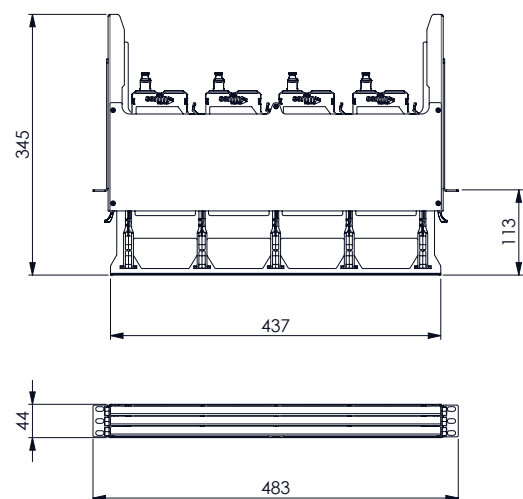
- Modular structure with many different variations
- Configurable tray structure for Base-8 and Base-12 topologies
- Patented Rail Design
- In 1U 144 LC connector capacity
- 3 individually sliding trays per 1U for maximum flexibility during operation and installation
- Patch cord management for each individual tray
- Labelling front for module identification
- Sliding and extracting the modules of the trays for better access to cables during installation
- Modules can be removed and installed from the front and rear side of the trays

### Dimensions

With Organizer

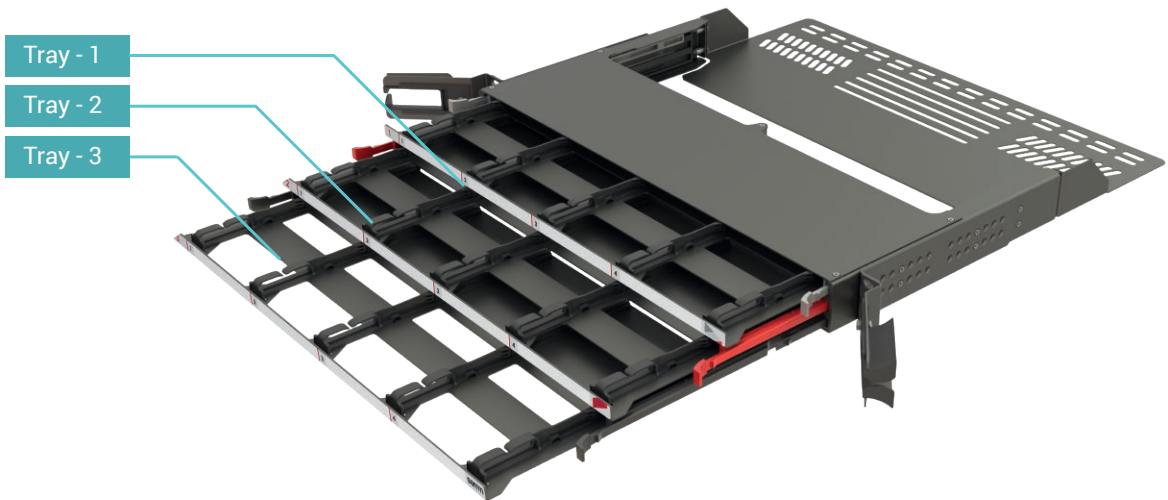


Without Organizer

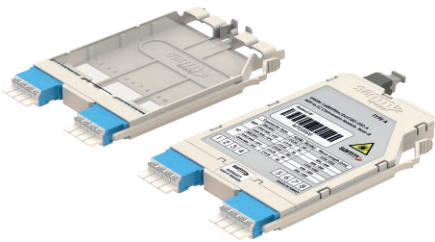




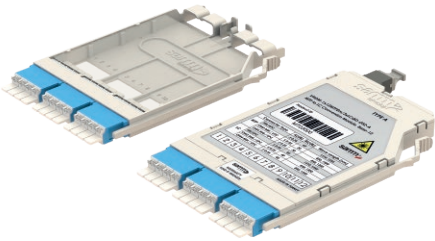
## Different Backbone Design Options



Base-8 Cassette Module



Base-12 Cassette Module

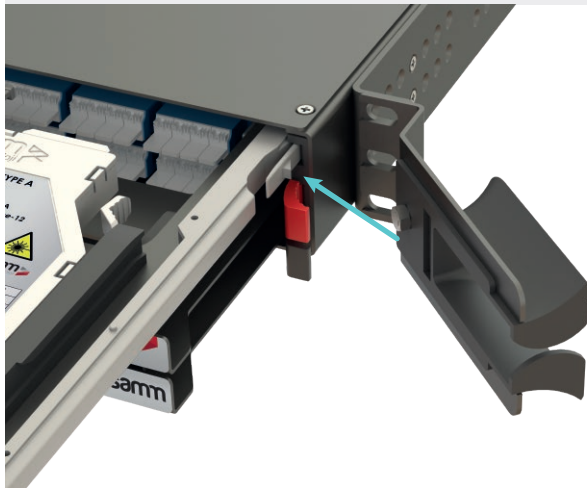


Practical Benefits

Sliding Tray Lock & Release Arm (Patent Pending)



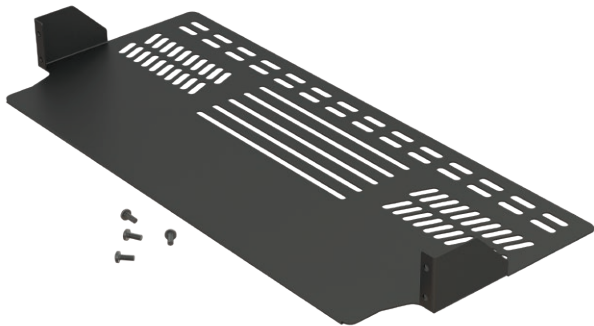
Tray Move-Out Lock Releasing (Patent Pending)



Front Cable Guides



Rear Organizer

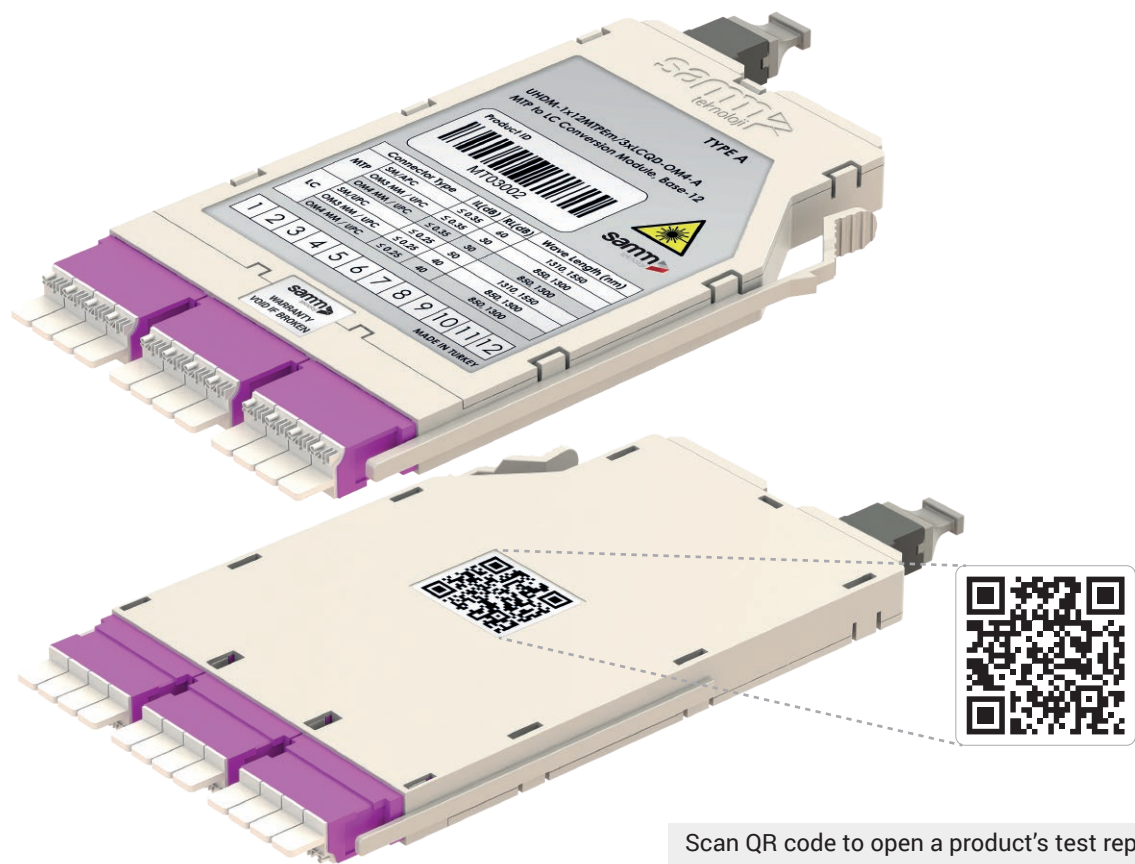


Order Coding

PAN-UHD-1U-B12-BLK-NN	19" 1U G-Connect UHDM Panel, Black, 12 Module Capacity, Base-12
PAN-UHD-1U-REAR-ORG	19" 1U G-Connect UHDM Panel Rear Organizer, Black
PAN-UHD-1U-FRONT-GUI	19" 1U G-Connect UHDM Panel Left/Right Front Cable Management Guides

## UHD MTP-LC Conversion Cassettes Base-8 / Base-12

This ultra high-density MTP-LC conversion cassette is ideal for plug-and-play systems. The cassette hosts 8 or 12 LC adapters in the front and 1 MTP adapter in the back, with the optical circuit that interconnects the front and rear adapters. This cassette has a thin design and a 1U panel can fit 12 cassettes in it.



### Applications

- Entrance facility
- Data center
- Telecommunications room
- Cellular tower base station
- Consolidation point
- Central office
- Equipment room

### Key Features and Benefits

- Front and rear installation options on panel rail guides
- Sliding mechanism allows modules to snap into position for quick and easy, tool-less mounting
- High-density: up to 144 fibers in a 1U rack space
- Safety lock design against movement when installed
- Port numbering on the label
- Robust and Strong design
- Complete optical testing

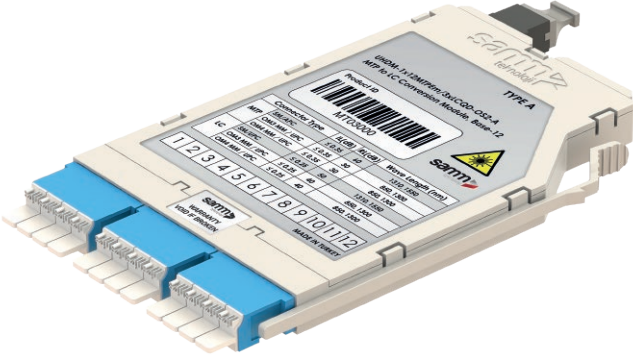
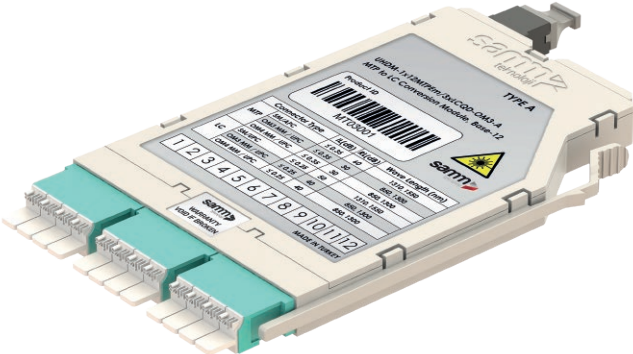
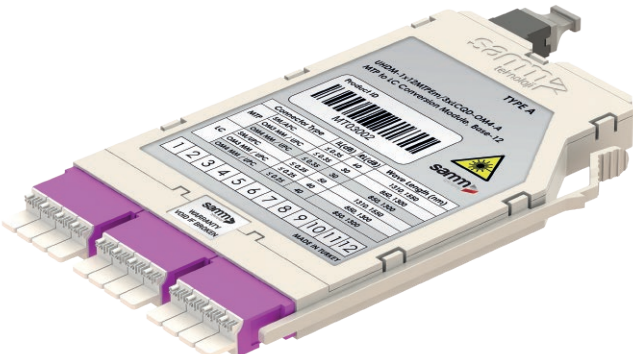
### Technical Specifications

Plastic cassette materials	PC/ABS Blend, Light Grey
Flammability rate	UL94-V0
RoHS	Compliant
Operating temperature	-20°to +60°C
Storage temperature	-25°to +70°C



MTP-LC Conversion Cassettes Base-12

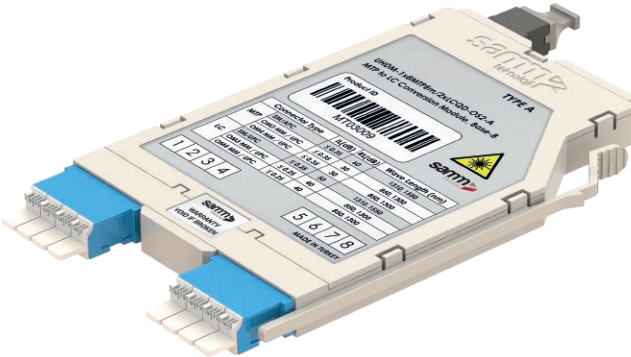
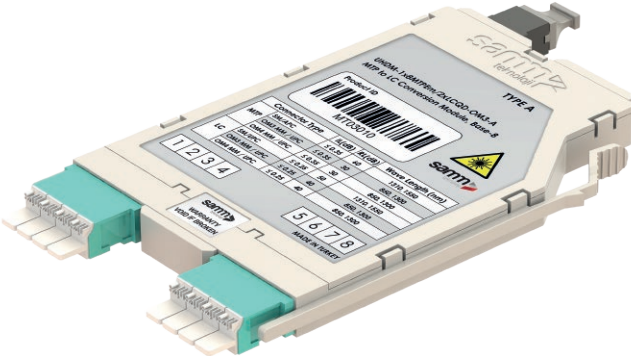
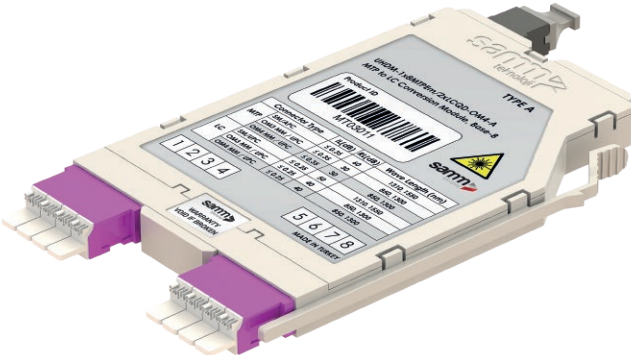
(Please choose the right polarity wiring and fiber type)

OS2 Base-12 Cassette	Code and Description
	<b>UHDM-1x12MTPEm/3xLCQD-OS2-A</b> OS2 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Blue, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type A
	<b>UHDM-1x12MTPEm/3xLCQD-OS2-AF</b> OS2 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Blue, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type AF
	<b>UHDM-1x12MTPEm/3xLCQD-OS2-B</b> OS2 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Blue, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type B
OM3 Base-12 Cassette	Code and Description
	<b>UHDM-1x12MTPEm/3xLCQD-OM3-A</b> OM3 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Aqua, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type A
	<b>UHDM-1x12MTPEm/3xLCQD-OM3-AF</b> OM3 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Aqua, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type AF
	<b>UHDM-1x12MTPEm/3xLCQD-OM3-B</b> OM3 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Aqua, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type AB
OM4 Base-12 Cassette	Code and Description
	<b>UHDM-1x12MTPEm/3xLCQD-OM4-A</b> OM4 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Violet, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type A
	<b>UHDM-1x12MTPEm/3xLCQD-OM4-AF</b> OM4 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Violet, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type AF
	<b>UHDM-1x12MTPEm/3xLCQD-OM4-B</b> OM4 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Violet, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type B



MTP-LC Conversion Cassettes Base-8

(Please choose the right polarity wiring and fiber type)

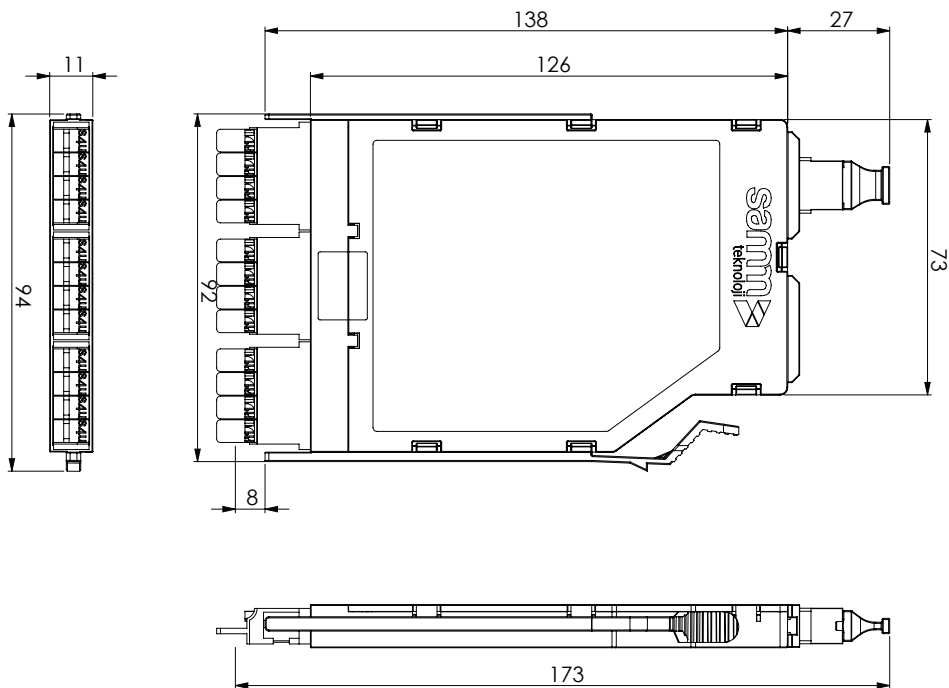
OS2 Base-8 Cassette	Code and Description
	<b>UHDM-1x8MTPEm/2xLCQD-OS2-A</b> OS2 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Blue, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type A
	<b>UHDM-1x8MTPEm/3xLCQD-OS2-AF</b> OS2 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Blue, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type AF
	<b>UHDM-1x8MTPEm/3xLCQD-OS2-B</b> OS2 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Blue, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type B
OM3 Base-8 Cassette	Code and Description
	<b>UHDM-1x8MTPEm/2xLCQD-OM3-A</b> OM3 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Aqua, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type A
	<b>UHDM-1x8MTPEm/2xLCQD-OM3-AF</b> OM3 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Aqua, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type AF
	<b>UHDM-1x8MTPEm/2xLCQD-OM3-B</b> OM3 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Aqua, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type AB
OM4 Base-8 Cassette	Code and Description
	<b>UHDM-1x8MTPEm/3xLCQD-OM4-A</b> OM4 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Violet, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type A
	<b>UHDM-1x8MTPEm/3xLCQD-OM4-AF</b> OM4 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Violet, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type AF
	<b>UHDM-1x8MTPEm/3xLCQD-OM4-B</b> OM4 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Violet, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type B

Optical Performance

Connector Type		IL(dB)	RL(dB)	Wave Length (nm)
MTP	SM/APC	≤ 0.35	60	1310, 1550
	OM3 MM / UPC	≤ 0.35	30	850, 1300
	OM4 MM / UPC	≤ 0.35	30	850, 1300
LC	SM/APC	≤ 0.25	60	1310, 1550
	OM3 MM / UPC	≤ 0.25	40	850, 1300
	OM4 MM / UPC	≤ 0.25	40	850, 1300

Certification And Compliance

<b>ANSI/TIA-942-A</b> Telecommunications Infrastructure Standard for Data Centers	<b>IEC 60874-1</b> Connectors for Optical Fibers and Cables; Generic Standard
<b>ANSI/TIA-568-C.3</b> Optical Fiber Cabling Components Standard	<b>IEC 61300</b> Fiber Optic Interconnecting Devices and Passive Components; Basic Test and Measurement Procedures
<b>TIA-604 series</b> Fiber Optic Connector Intermateability Standard	<b>IEC 60874-1</b> Connectors for Optical Fibers and Cables; Generic Standard
<b>TIA-455 series</b> Standard Test Procedure for Fiber Optic Components	<b>UL 94</b> Tests for Flammability of Plastic Material for Parts in Devices and Appliances
<b>GR-326-CORE</b> Generic Requirements for Single Mode Optical Connectors and Jumper Assemblies	<b>RoHS</b> Directive on Restriction of Hazardous Substances

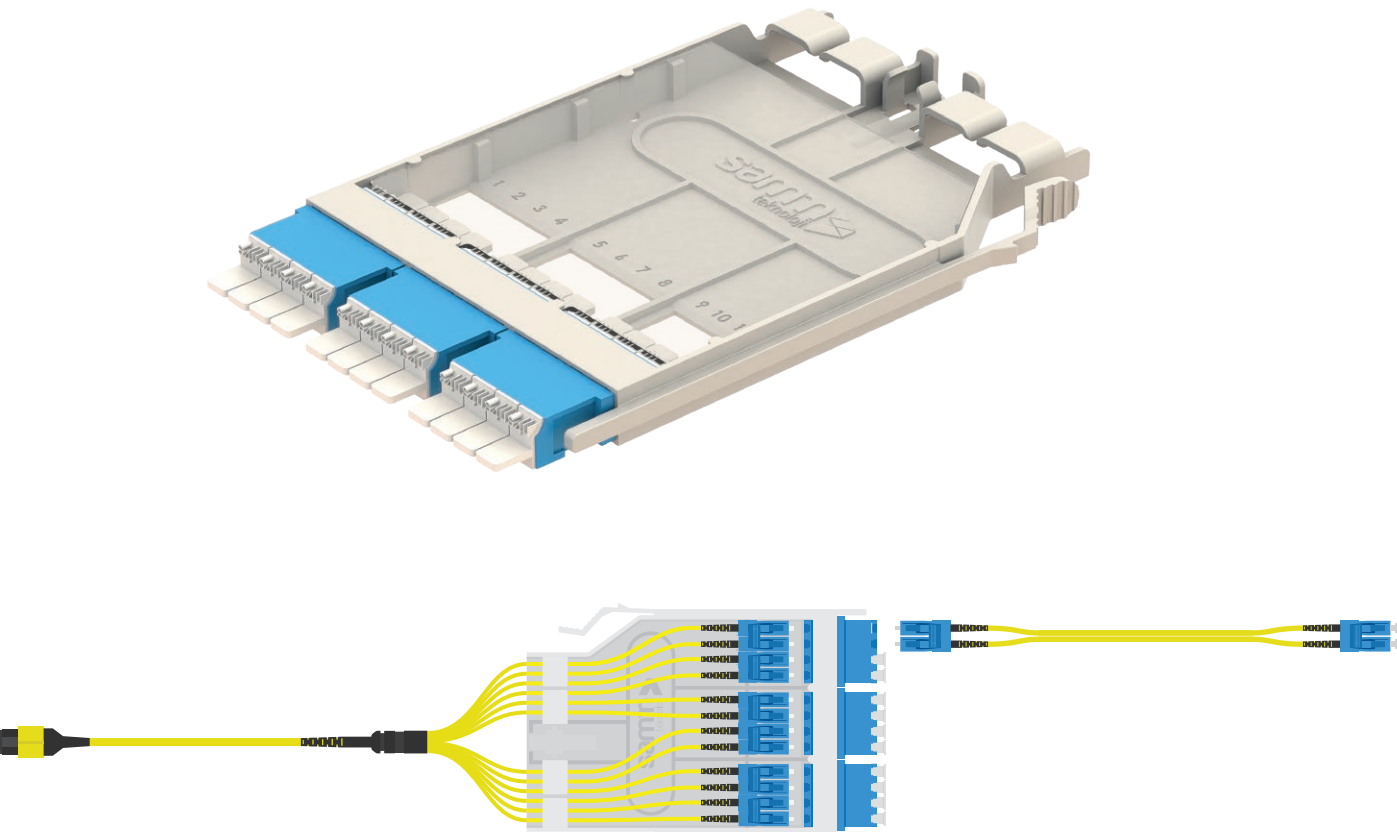




## Patch Cassettes Base-8 / Base-12

Patch Cassette houses the interconnections between fiber optic assemblies and active equipment's. It can accommodate standard MTP, LC and SC connectors and has a fiber capacity of 6/12/144 fiber interconnections per module.

Patch Modules snap easily into position with a fluid and robust sliding mechanism and are compatible with all G-Connect Series high density panels. These cassettes provide a straight through LC, SC or MTP patching field, which allows trunk cables to be connected directly to patch cords or harnesses. Designed to facilitate "end-to-end" parallel optics connectivity.



### Applications

- Entrance facility
- Data center
- Telecommunications room
- Cellular tower base station
- Consolidation point
- Central office
- Equipment room

### Key Features and Benefits

- Front and rear installation options on panel rail guides
- Safety lock design against movement when installed
- Two sides rear cable entry
- Fan-out divider holder
- Engraved Port numbering
- Robust and Strong design

### Patch Capacity for 1U G-Connect High Density Panel

Connector Type	LC	SC	MTP-8	MTP-12	MTP-24
Fiber Count	144	72	576	864	1728

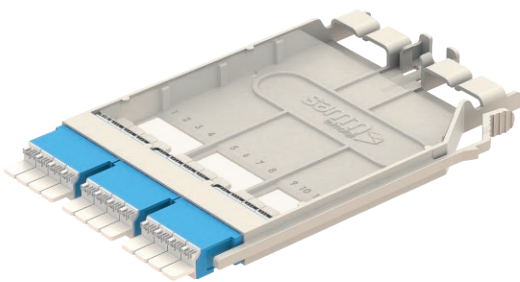
Technical Specifications

Cassette Fiber Count Variations	8/12/24/48/72/144 Fibers
Adapters Insertion Loss	≤ 0.1 dB ( Typical ) ≤ 0.2 dB ( Maximum )
Plastic Cassette Materials	PC/ABS Blend, Light Grey
Flammability Rate	UL94-V0
RoHS	Compliant
Operating Temperature	-20°to +60°C
Storage Temperature	-25°to +70°C

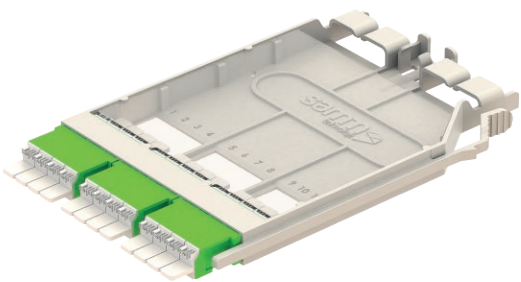
Certification and Compliance

ANSI/TIA-942-A Telecommunications Infrastructure Standard for Data Centers	IEC 60874-1 Connectors for Optical Fibers and Cables; Generic Standard
ANSI/TIA-568-C.3 Optical Fiber Cabling Components Standard	IEC 61300 Fiber Optic Interconnecting Devices and Passive Components; Basic Test and Measurement Procedures
TIA-604 series Fiber Optic Connector Intermateability Standard	IEC 60874-1 Connectors for Optical Fibers and Cables; Generic Standard
TIA-455 series Standard Test Procedure for Fiber Optic Components	UL 94 Tests for Flammability of Plastic Material for Parts in Devices and Appliances
GR-326-CORE Generic Requirements for Single Mode Optical Connectors and Jumper Assemblies	RoHS Directive on Restriction of Hazardous Substances

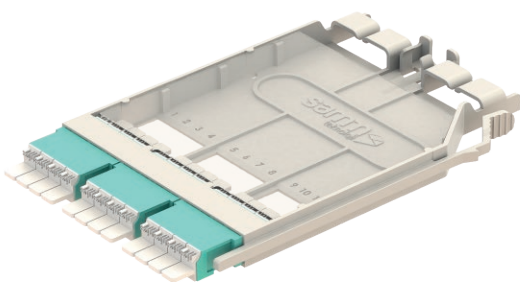
LC Patch Modules



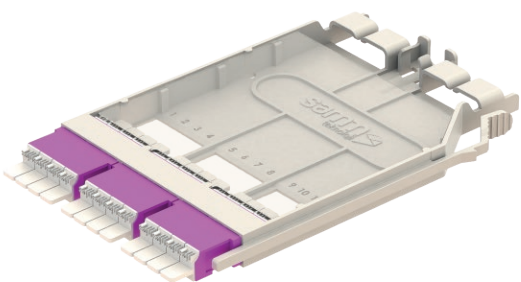
UHDM-PATCH-3xLCQDBLU-OS2



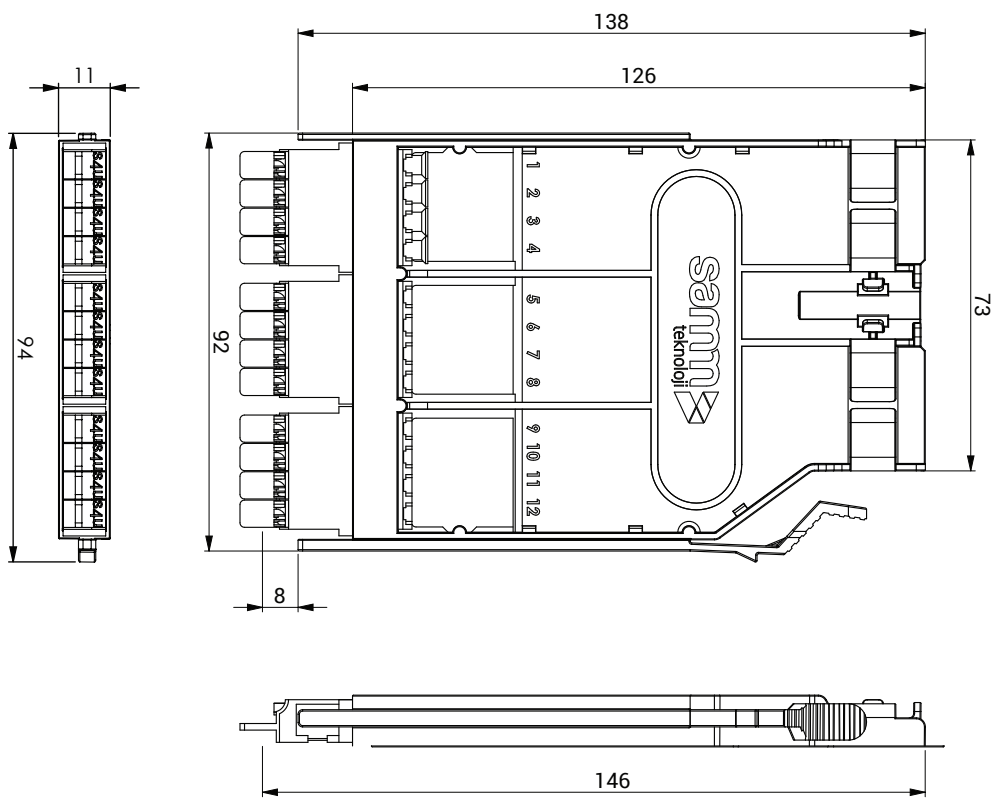
UHDM-PATCH-3xLCQDGRN-OS2



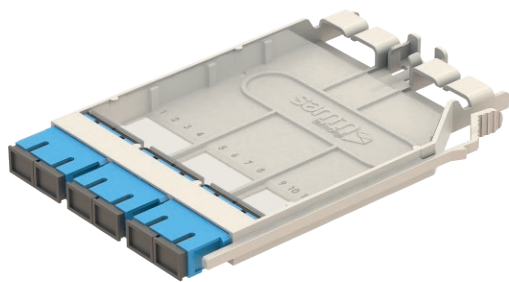
UHDM-PATCH-3xLCQDAQU-OM3



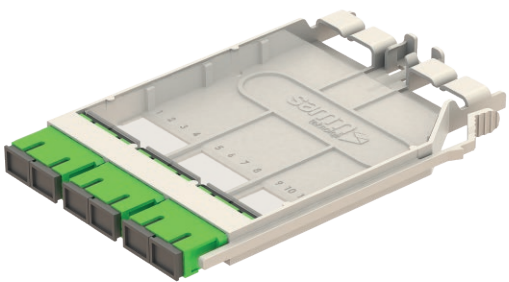
UHDM-PATCH-3xLCQDVI0-OM4



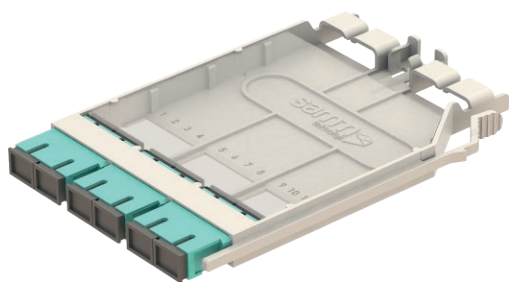
SC Patch Modules



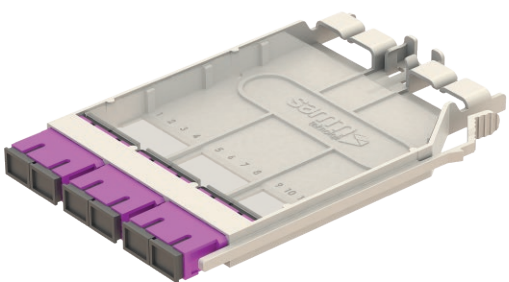
UHDM-PATCH-3xSCDXBLU-OS2



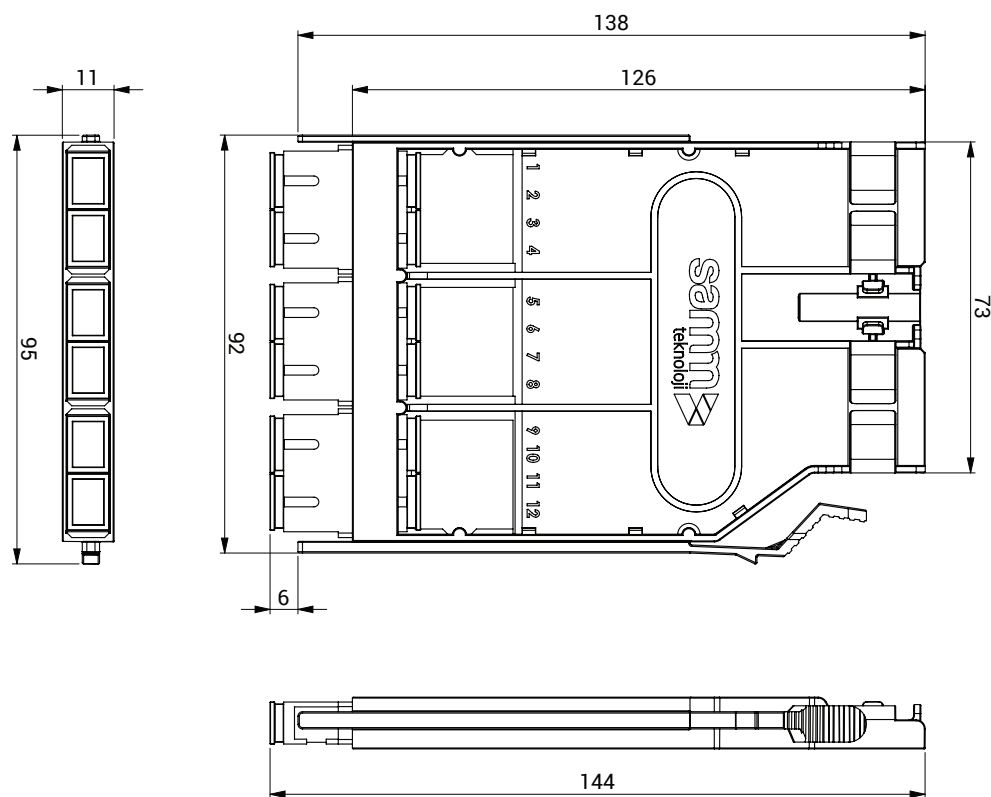
UHDM-PATCH-3xSCDXGRN-OS2



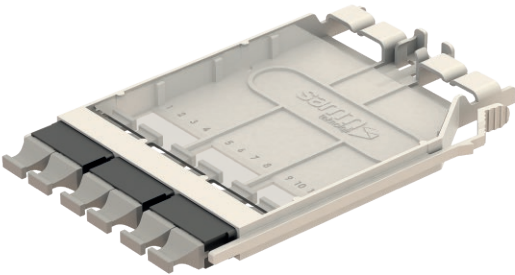
UHDM-PATCH-3xSCDXAQU-OM3



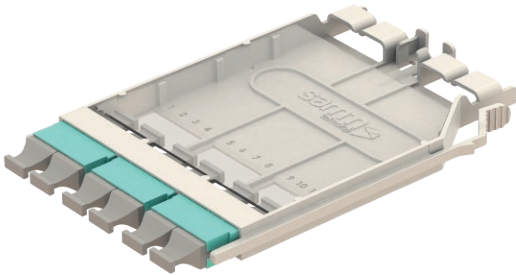
UHDM-PATCH-3xSCDXVIO-OM4



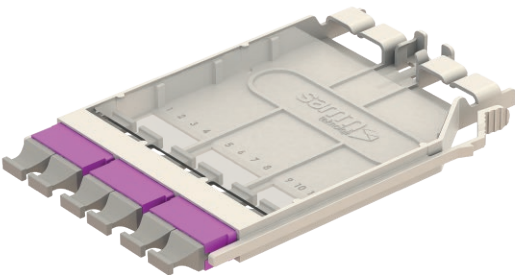
MTP Patch Modules



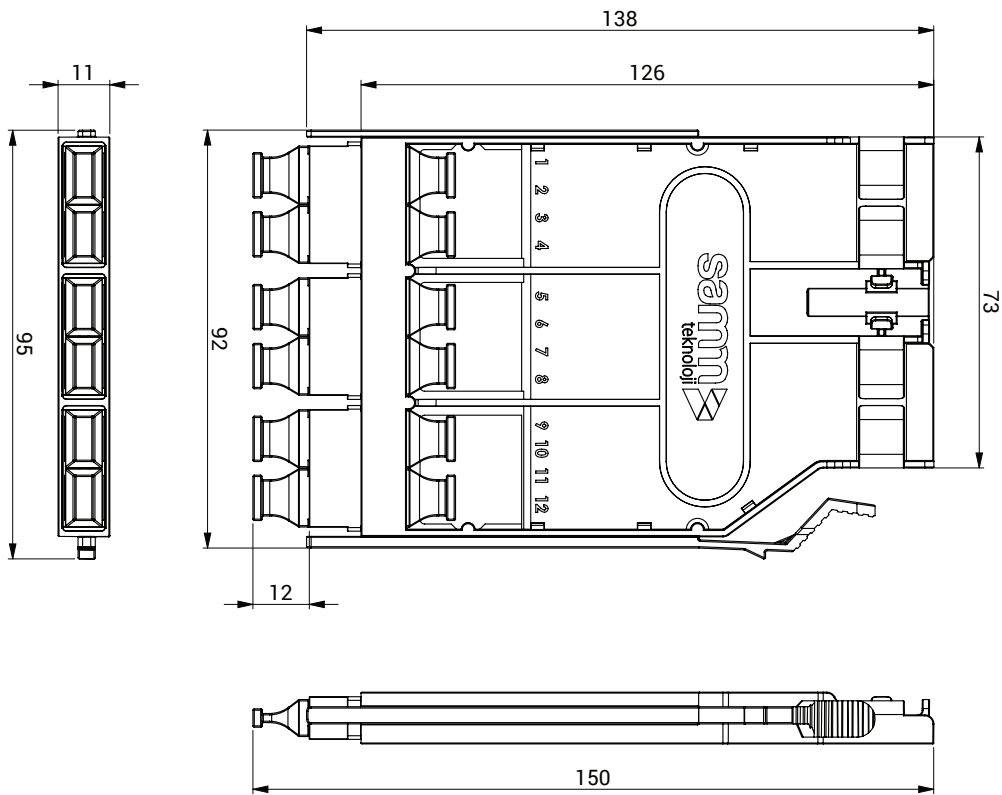
UHDM-PATCH-3xMTPDXBLK(OPPOSED)



UHDM-PATCH-3xMTPDXAQU(OPPOSED)



UHDM-PATCH-3xMTPDXVIO(OPPOSED)



## 1U High Density Modular Fiber Panels

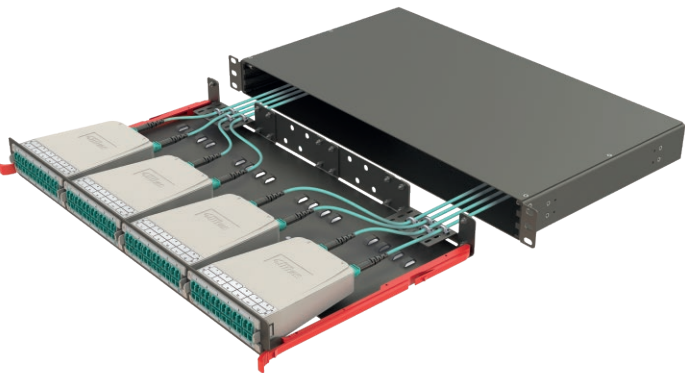
1U high density Data Center | Fiber Solutions | Modular HD Series can terminate, organize and distribute up to 48/96 fibers. This panel is designed to be mounted on 19" rack systems and it has 4 slots in a 1U unit that can hold MTP/LC conversion cassettes and MTP/LC/SC patch adapter modules. This HD Modular fiber optic panel is compatible with optional accessories such as pre-installed inner splicing trays, cable tie-up plates, fan-out fixing plates, blind plates, optical adapters and fiber pigtails. High Density Modular Fiber Panels are generally used in data centers.

### Optional Modularity for Different Applications

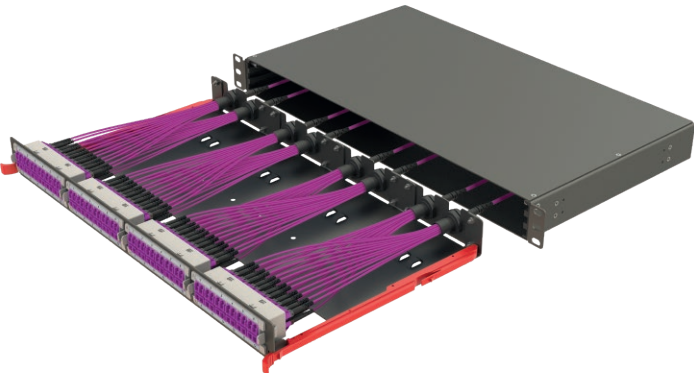
1U Empty Panel



1U MTP to LC Conversion Panel



1U Patch to Patch Panel



### Panel Capacity

Type of Modules		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
1U Panel (4 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	48/96	384/576/1152	96	48

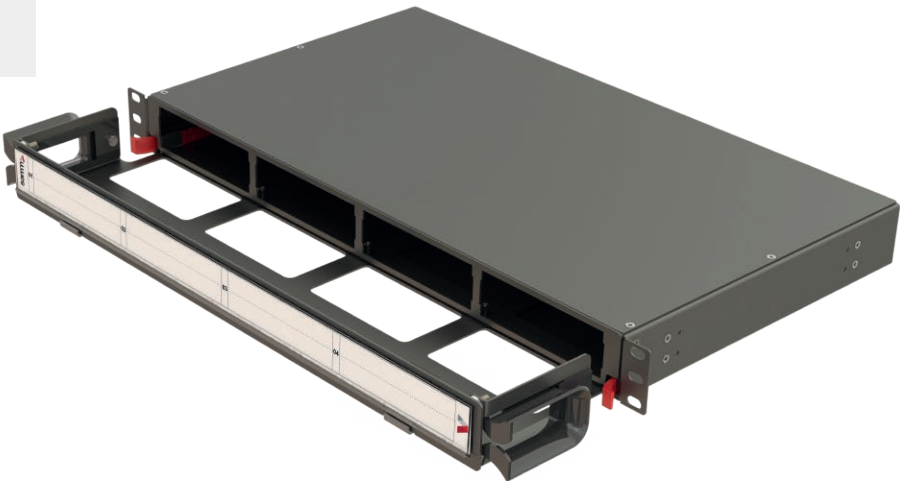


## 1U High Density Modular Fiber Panels | with Front Organizer

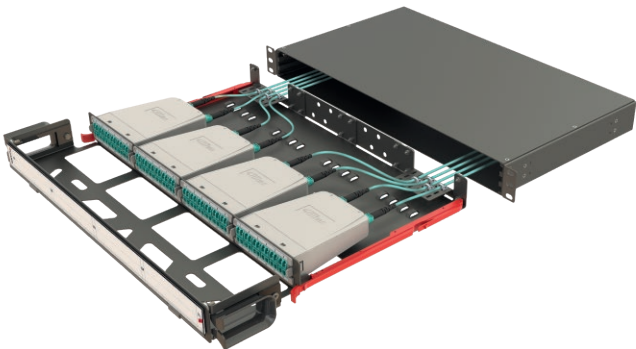
1U high density Data Center | Fiber Solutions | Modular HD Series can terminate, organize and distribute up to 48/96 fibers. This panel is designed to be mounted on 19" rack systems and it has 4 slots in a 1U unit that can hold MTP/LC conversion cassettes and MTP/LC/SC patch adapter modules. This HD Modular fiber optic panel has a front cable organizer and is compatible with optional accessories such as pre-installed inner splicing trays, cable tie-up plates, fan-out fixing plates, blind plates, optical adapters and fiber pigtails. High Density Modular Fiber Panels are generally used in data centers.

### Optional Modularity for Different Applications

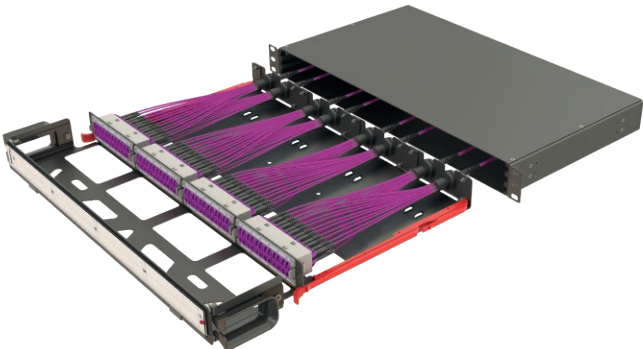
1U **Empty** Panel  
with **Front Organizer**



1U **MTP to LC** Conversion Panel  
with **Front Organizer**



1U **Patch to Patch** Panel  
with **Front Organizer**



### Panel Capacity

Type of Modules		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
1U Panel (4 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	48/96	384/576/1152	96	48

## 2U High Density Modular Fiber Panels

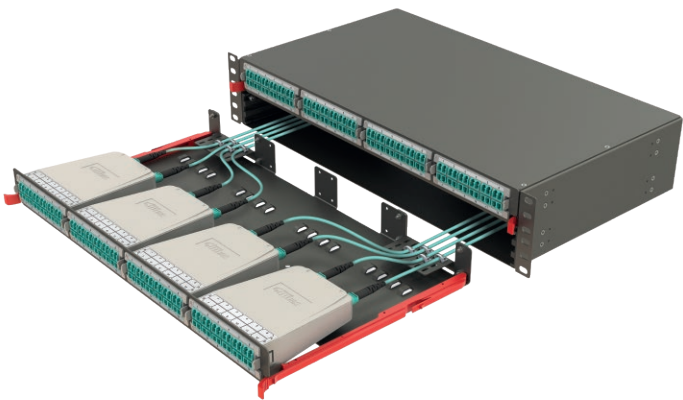
2U high density Data Center | Fiber Solutions | Modular HD Series can terminate, organize and distribute up to 96/192 fibers. This panel is designed to be mounted on 19" rack systems and it has 8 slots in a 2U unit that can hold MTP/LC conversion cassettes and MTP/LC/SC patch adapter modules. This HD Modular fiber optic panel is compatible with optional accessories such as pre-installed inner splicing trays, cable tie-up plates, fan-out fixing plates, blind plates, optical adapters and fiber pigtails. High Density Modular Fiber Panels are generally used in data centers.

### Optional Modularity for Different Applications

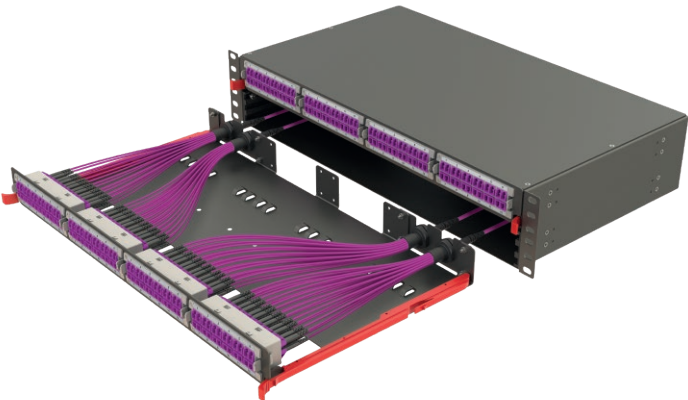
2U Empty Panel



2U MTP to LC Conversion Panel



2U Patch to Patch Panel



### Panel Capacity

Type of Modules		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
2U Panel (8 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	96/192	768/1152/2304	192	96

## 2U High Density Modular Fiber Panels | with Front Organizer

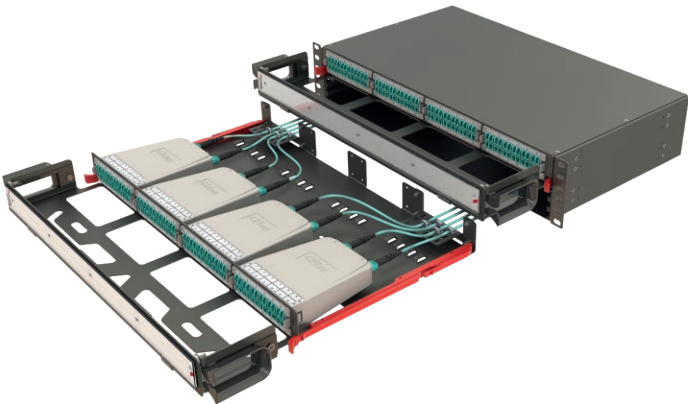
2U high density Data Center | Fiber Solutions | Modular HD Series can terminate, organize and distribute up to 96/192 fibers. This panel is designed to be mounted on 19" rack systems and it has 8 slots in a 2U unit that can hold MTP/LC conversion cassettes and MTP/LC/SC patch adapter modules. This HD Modular fiber optic panel has a front cable organizer and is compatible with optional accessories such as pre-installed inner splicing trays, cable tie-up plates, fan-out fixing plates, blind plates, optical adapters and fiber pigtails. High Density Modular Fiber Panels are generally used in data centers.

### Optional Modularity for Different Applications

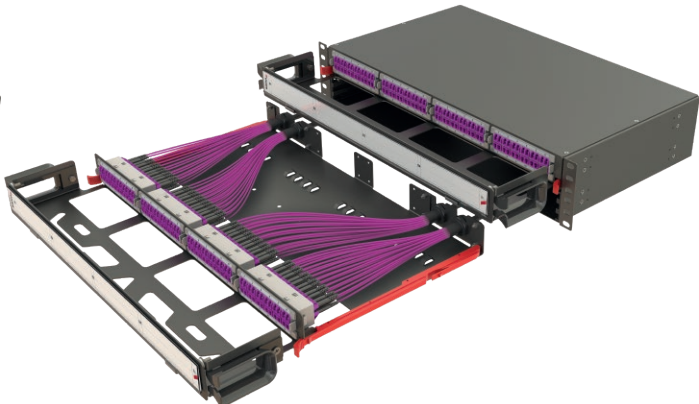
2U **Empty** Panel  
with **Front Organizer**



2U **MTP to LC** Conversion Panel  
with **Front Organizer**



2U **Patch to Patch** Panel  
with **Front Organizer**



### Panel Capacity

Type of Modules		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
2U Panel (8 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	96/192	768/1152/2304	192	96

### 3U High Density Modular Fiber Panels

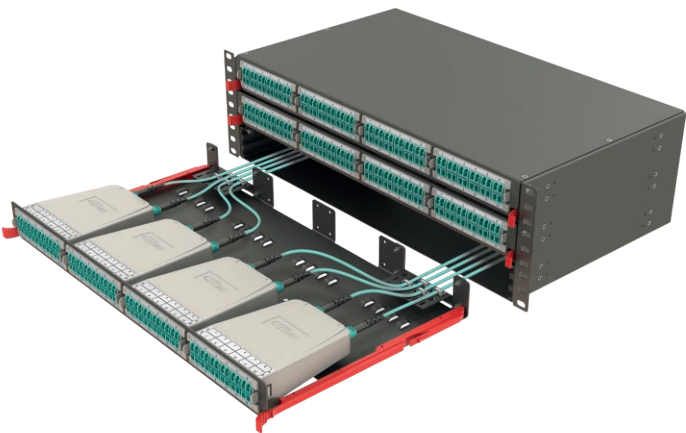
3U high density Data Center | Fiber Solutions | Modular HD Series can terminate, organize and distribute up to 144/288 fibers. This panel is designed to be mounted on 19" rack systems and it has 12 slots in a 3U unit that can hold MTP/LC conversion cassettes and MTP/LC/SC patch adapter modules. This HD Modular fiber optic panel is compatible with optional accessories such as pre-installed inner splicing trays, cable tie-up plates, fan-out fixing plates, blind plates, optical adapters and fiber pigtails. High Density Modular Fiber Panels are generally used in data centers.

#### Optional Modularity for Different Applications

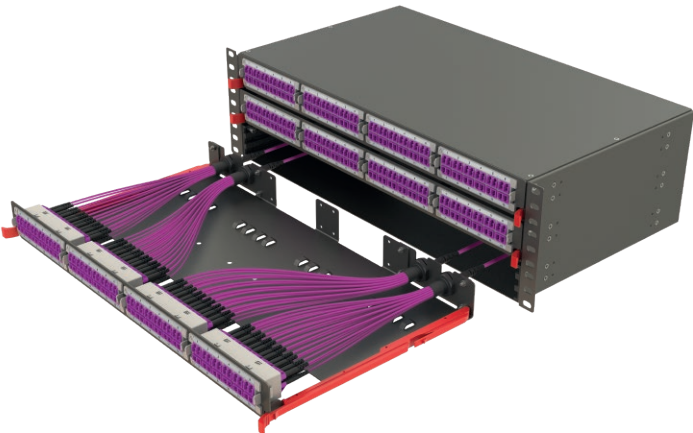
3U Empty Panel



3U MTP to LC Conversion Panel



3U Patch to Patch Panel



#### Panel Capacity

Type of Modules		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
3U Panel (12 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	144/288	1152/1728/3456	288	144



### 3U High Density Modular Fiber Panels | with Front Organizer

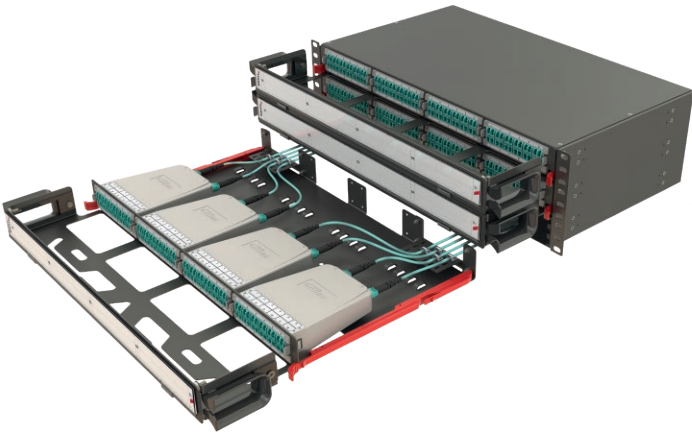
3U high density Data Center | Fiber Solutions | Modular HD Series can terminate, organize and distribute up to 144/288 fibers. This panel is designed to be mounted on 19" rack systems and it has 12 slots in a 3U unit that can hold MTP/LC conversion cassettes and MTP/LC/SC patch adapter modules. This HD Modular fiber optic panel has a front cable organizer and is compatible with optional accessories such as pre-installed inner splicing trays, cable tie-up plates, fan-out fixing plates, blind plates, optical adapters and fiber pigtails. High Density Modular Fiber Panels are generally used in data centers.

#### Optional Modularity for Different Applications

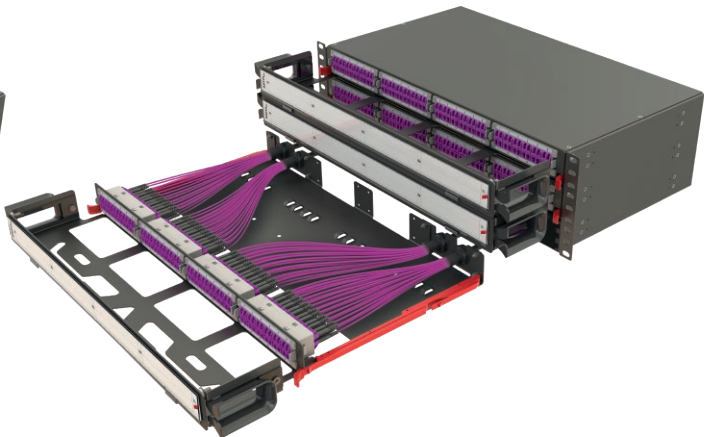
3U **Empty** Panel  
with **Front Organizer**



3U **MTP to LC** Conversion Panel  
with **Front Organizer**



3U **Patch to Patch** Panel  
with **Front Organizer**



#### Panel Capacity

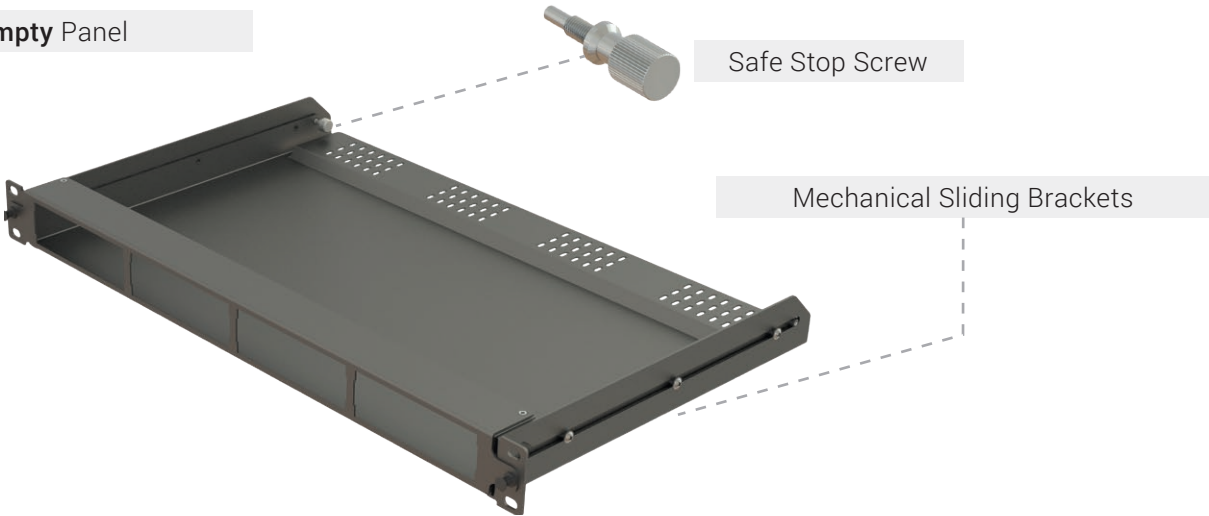
Type of Modules		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
3U Panel (12 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	144/288	1152/1728/3456	288	144

1U High Density Modular Fiber Panels - Easy Series

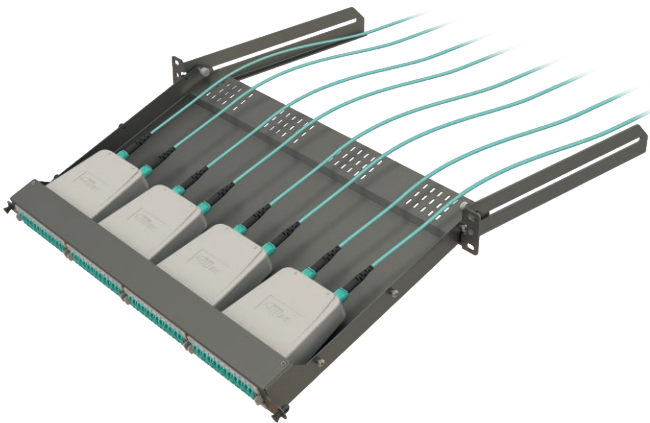
1U high density modular fiber optic panels can terminate, organize and distribute up to 48/96 fibers. These panels are designed to be mounted on 19" rack systems and it has 4 slots in a 1U unit that can hold conversion cassettes and MTP/LC/SC patch adapter modules. High Density Modular Fiber Panels are generally used in data centers.

Optional Modularity for Different Applications

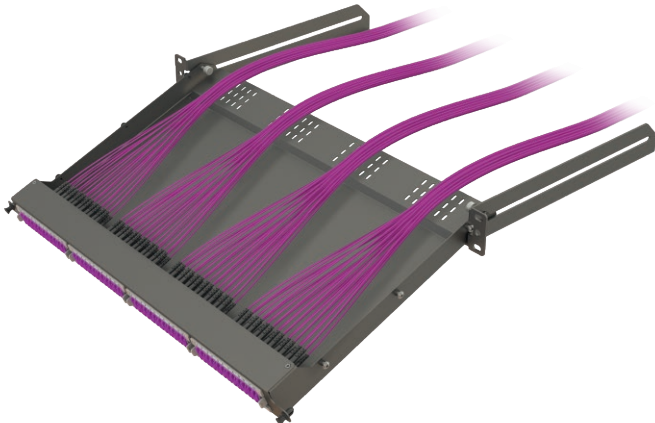
1U Empty Panel



1U Conversion Panel



1U Patch to Patch Panel



Panel Capacity

Type of Modules		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
1U Panel (4 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	48/96	384/576/1152	96	48

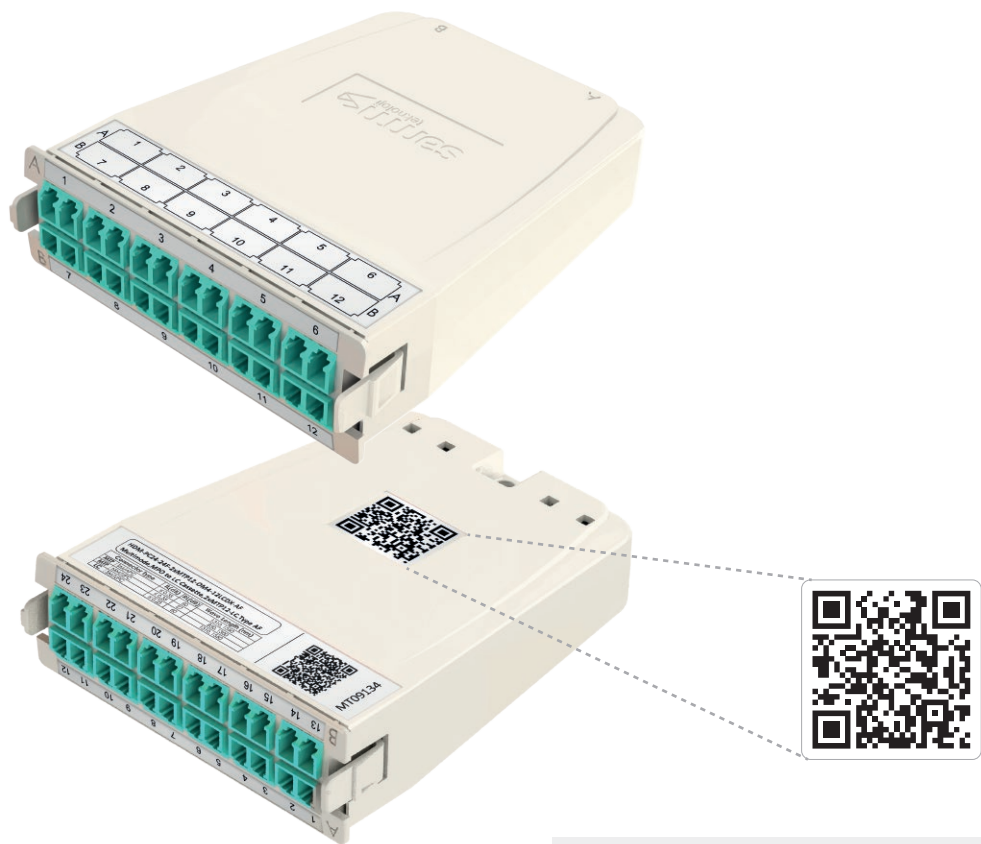
Ordering Code

MT13213 EHDM -PANEL-1U-4SL-V0- BLK-NN Mechanical Sliding Modular Panel



## High Density MTP to LC Conversion Module | 12 LC-DX

This high-density MTP-LC conversion module is ideal for plug-and-play systems. The module hosts 12 or 24 LC adapters in the front and 1 or 2 MTP adapters in the back, with the optical circuit that interconnects the front and rear adapters. This module has an HD design and a 1U panel can fit 4 modules in it.



Scan QR code to access test report

### Applications

- Entrance facility
- Data center
- Telecommunications room
- Cellular tower base station
- Consolidation point
- Central office
- Equipment room

### Key Features and Benefits

- Front installation on panel rail guides
- Sliding mechanism allows modules to snap into position for quick and easy, tool-less mounting
- High-density: up to 96 fibers in a 1U rack space
- Safety lock design against movement when installed
- Port numbering on the label
- Robust and Strong design
- Complete optical testing

### Technical Specifications

Plastic cassette materials	PC/ABS Blend, Light Grey
Flammability rate	UL94-V0
RoHS	Compliant
Operating temperature	-20°to +60°C
Storage temperature	-25°to +70°C

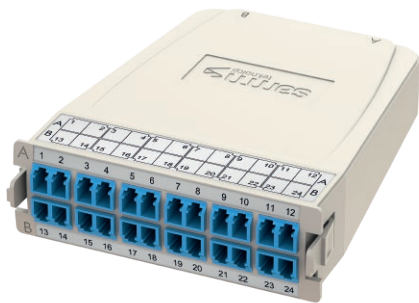
MTP to LC Conversion Cassettes | 1xBase-24 / 12xLC-Duplex



OS2 Base-24 to 12 LC Duplex Cassette

Code and Description

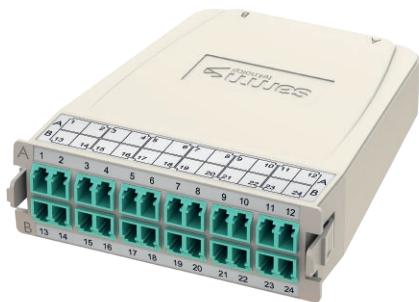
- HDM-PC24 -24F-1xMTP24-OS2-12LCDX-A  
Single Mode, A2, 9/125, MTP to LC Cassette,  
1xMTP24-LC, Type A
- HDM-PC24 -24F-1xMTP24-OS2-12LCDX-AF  
Single Mode, A2, 9/125, MTP to LC Cassette,  
1xMTP24-LC, Type AF
- HDM-PC24 -24F-1xMTP24-OS2-12LCDX-B  
Single Mode, A2, 9/125, MTP to LC Cassette,  
1xMTP24-LC, Type B



OM3 Base-24 to 12 LC Duplex Cassette

Code and Description

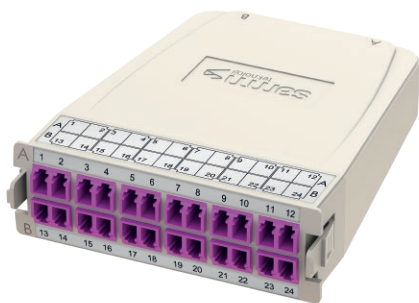
- HDM-PC24 -24F-1xMTP24-OM3-12LCDX-A  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
1xMTP24-LC, Type A
- HDM-PC24 -24F-1xMTP24-OM3-12LCDX-AF  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
1xMTP24-LC, Type AF
- HDM-PC24 -24F-1xMTP24-OM3-12LCDX-B  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
1xMTP24-LC, Type B



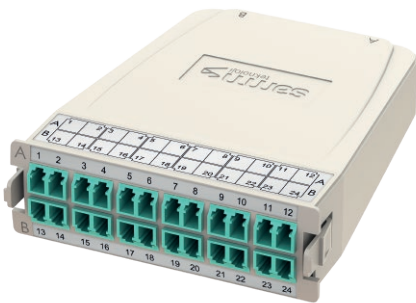
OM4 Base-24 to 12 LC Duplex Cassette

Code and Description

- HDM-PC24 -24F-1xMTP24-OM4-12LCDX-A  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
1xMTP24-LC, Type A
- HDM-PC24 -24F-1xMTP24-OM4-12LCDX-AF  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
1xMTP24-LC, Type AF
- HDM-PC24 -24F-1xMTP24-OM4-12LCDX-B  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
1xMTP24-LC, Type B

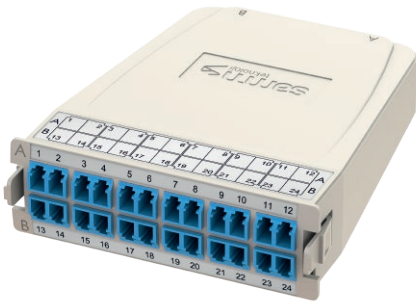


MTP to LC Conversion Cassettes | 2xBase-12 / 12xLC-Duplex



OS2 2xBase-12 to 12 LC Duplex Cassette

Code and Description



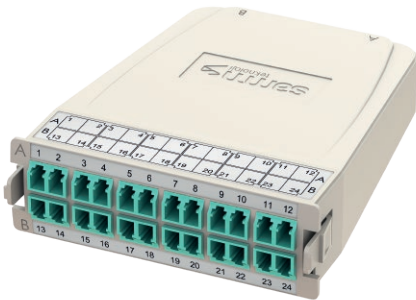
HDM-PC24 -24F-2xMTP12-OS2-12LCDX-A  
Single Mode, A2, 9/125, MTP to LC Cassette,  
2xMTP12-LC, Type A

HDM-PC24 -24F-2xMTP12-OS2-12LCDX-AF  
Single Mode, A2, 9/125, MTP to LC Cassette,  
2xMTP12-LC, Type AF

HDM-PC24 -24F-2xMTP12-OS2-12LCDX-B  
Single Mode, A2, 9/125, MTP to LC Cassette,  
2xMTP12-LC, Type B

OM3 2xBase-12 to 12 LC Duplex Cassette

Code and Description



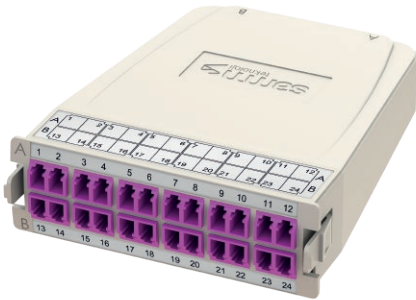
HDM-PC24 -24F-2xMTP12-OM3-12LCDX-A  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
2xMTP12-LC, Type A

HDM-PC24 -24F-2xMTP12-OM3-12LCDX-AF  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
2xMTP12-LC, Type AF

HDM-PC24 -24F-2xMTP12-OM3-12LCDX-B  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
2xMTP12-LC, Type B

OM4 2xBase-12 to 12 LC Duplex Cassette

Code and Description

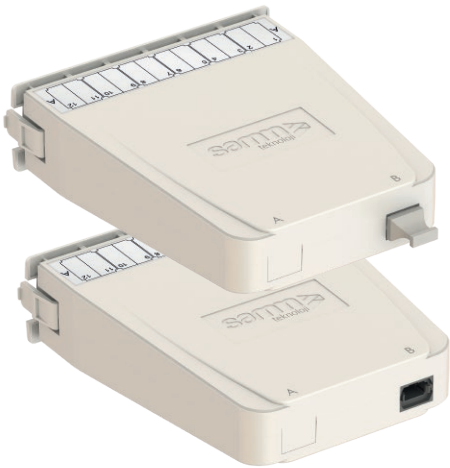


HDM-PC24 -24F-2xMTP12-OM4-12LCDX-A  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
2xMTP12-LC, Type A

HDM-PC24 -24F-2xMTP12-OM4-12LCDX-AF  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
2xMTP12-LC, Type AF

HDM-PC24 -24F-2xMTP12-OM4-12LCDX-B  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
2xMTP12-LC, Type B

MTP to LC Conversion Cassettes | 1xBase-12 / 6xLC-Duplex



OS2 Base-12 to 6 LC Duplex Cassette

Code and Description

**HDM-PC12 -12F-1xMTP12-OS2-06LCDX-A**  
Single Mode, A2, 9/125, MTP to LC Cassette,  
1xMTP12-LC, Type A

**HDM-PC12 -12F-1xMTP12-OS2-06LCDX-AF**  
Single Mode, A2, 9/125, MTP to LC Cassette,  
1xMTP12-LC, Type AF

**HDM-PC12 -12F-1xMTP12-OS2-06LCDX-B**  
Single Mode, A2, 9/125, MTP to LC Cassette,  
1xMTP12-LC, Type B

OM3 Base-12 to 6 LC Duplex Cassette

Code and Description

**HDM-PC12 -12F-1xMTP12-OM3-06LCDX-A**  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
1xMTP12-LC, Type A

**HDM-PC12 -12F-1xMTP12-OM3-06LCDX-AF**  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
1xMTP12-LC, Type AF

**HDM-PC12 -12F-1xMTP12-OM3-06LCDX-B**  
Multimode Mode, OM3, 50/125, MTP to LC Cassette,  
1xMTP12-LC, Type B

OM4 Base-12 to 6 LC Duplex Cassette

Code and Description

**HDM-PC12 -12F-1xMTP12-OM4-06LCDX-A**  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
1xMTP12-LC, Type A

**HDM-PC12 -12F-1xMTP12-OM4-06LCDX-AF**  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
1xMTP12-LC, Type AF

**HDM-PC12 -12F-1xMTP12-OM4-06LCDX-B**  
Multimode Mode, OM4, 50/125, MTP to LC Cassette,  
1xMTP12-LC, Type B

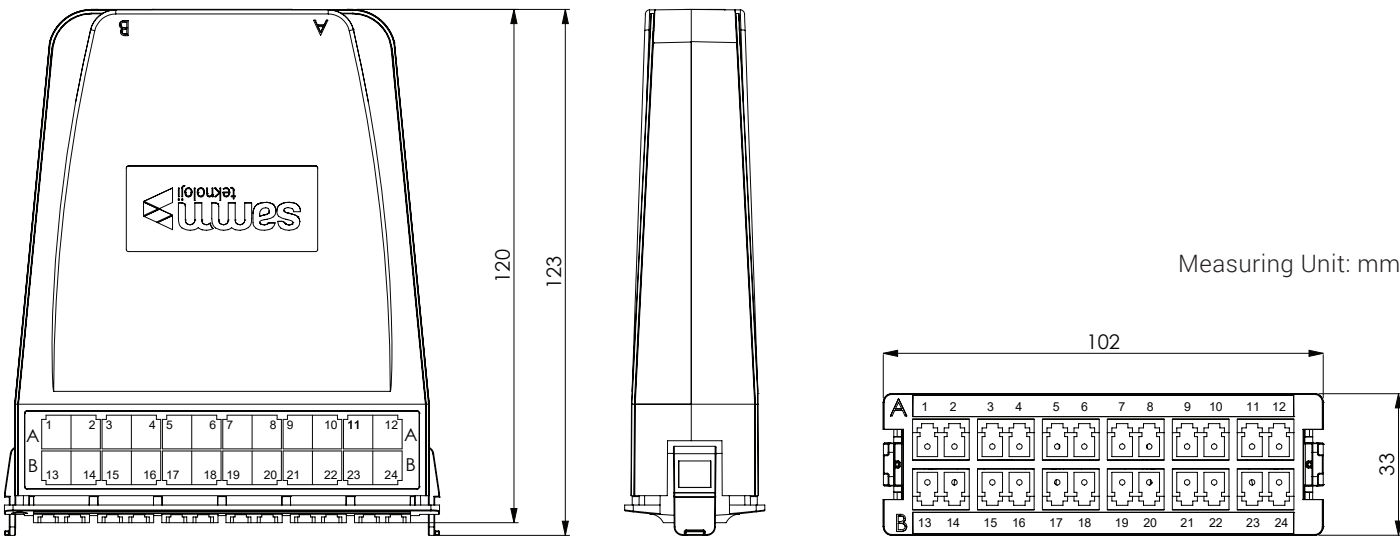
Optical Values

Connector Type		IL(dB)	RL(dB)	Wave Length (nm)
MTP	SM/APC	≤ 0.35	60	1310, 1550
	OM3 MM / UPC	≤ 0.35	30	850, 1300
	OM4 MM / UPC	≤ 0.35	30	850, 1300
LC	SM/APC	≤ 0.25	60	1310, 1550
	OM3 MM / UPC	≤ 0.25	40	850, 1300
	OM4 MM / UPC	≤ 0.25	40	850, 1300

Certification And Compliance

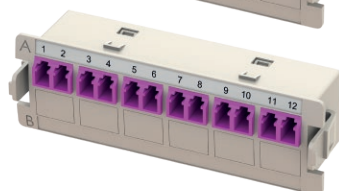
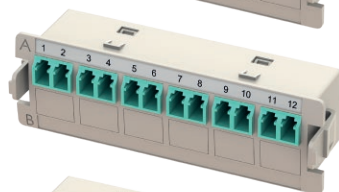
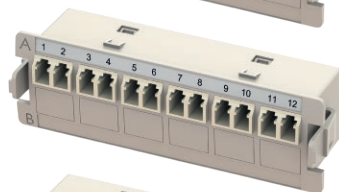
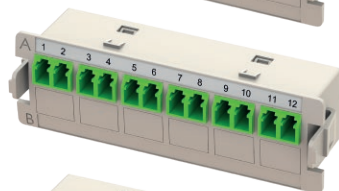
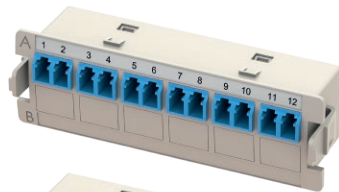
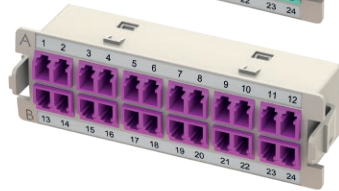
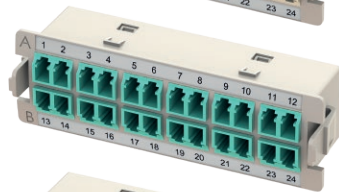
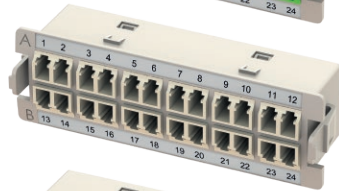
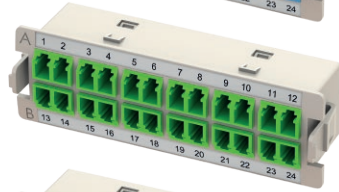
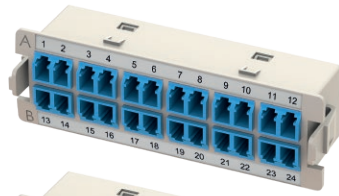
<b>ANSI/TIA-942-A</b> Telecommunications Infrastructure Standard for Data Centers	<b>IEC 60874-1</b> Connectors for Optical Fibers and Cables; Generic Standard
<b>ANSI/TIA-568-C.3</b> Optical Fiber Cabling Components Standard	<b>IEC 61300</b> Fiber Optic Interconnecting Devices and Passive Components; Basic Test and Measurement Procedures
<b>TIA-604 series</b> Fiber Optic Connector Intermateability Standard	<b>IEC 60874-1</b> Connectors for Optical Fibers and Cables; Generic Standard
<b>TIA-455 series</b> Standard Test Procedure for Fiber Optic Components	<b>UL 94</b> Tests for Flammability of Plastic Material for Parts in Devices and Appliances
<b>GR-326-CORE</b> Generic Requirements for Single Mode Optical Connectors and Jumper Assemblies	<b>RoHS</b> Directive on Restriction of Hazardous Substances

Cassette Dimensions





## Plastic Adapter Modules\_LC Duplex



### 24 Fibers

#### HDM-PAM-12LCDX-OS2-BU

High Density Modular Panel, 12 LC Duplex Adapter Module, Single Mode, OS2, Blue Adapter

#### HDM-PAM-12LCDX-OS2-GN

High Density Modular Panel, 12 LC Duplex Adapter Module, Single Mode, OS2, Green Adapter

#### HDM-PAM-12LCDX-OM2-BG

High Density Modular Panel, 12 LC Duplex Adapter Module, Multimode Mode, OM2, Beige Adapter

#### HDM-PAM-12LCDX-OM3-AQ

High Density Modular Panel, 12 LC Duplex Adapter Module, Multimode Mode, OM3, Aqua Adapter

#### HDM-PAM-12LCDX-OM4-VT

High Density Modular Panel, 12 LC Duplex Adapter Module, Multimode Mode, OM4, Violet Adapter

### 12 Fibers

#### HDM-PAM-06LCDX-OS2-BU

High Density Modular Panel, 6 LC Duplex Adapter Module, Single Mode, OS2, Blue Adapter

#### HDM-PAM-06LCDX-OS2-GN

High Density Modular Panel, 6 LC Duplex Adapter Module, Single Mode, OS2, Green Adapter

#### HDM-PAM-06LCDX-OM2-BG

High Density Modular Panel, 6 LC Duplex Adapter Module, Multimode Mode, OM2, Beige Adapter

#### HDM-PAM-06LCDX-OM3-AQ

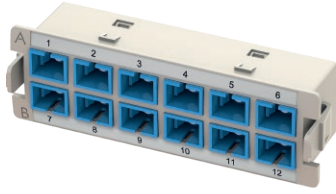
High Density Modular Panel, 6 LC Duplex Adapter Module, Multimode Mode, OM3, Aqua Adapter

#### HDM-PAM-06LCDX-OM4-VT

High Density Modular Panel, 6 LC Duplex Adapter Module, Multimode Mode, OM4, Violet Adapter

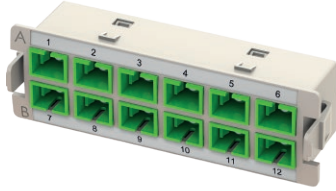


## Plastic Adapter Modules\_SC Simplex



### HDM-PAM-12SCSX-OS2-BU

High Density Modular Panel, 12 SC Simplex Adapter Module, Single Mode, OS2, Blue Adapter



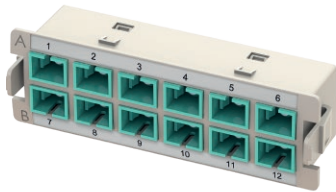
### HDM-PAM-12SCSX-OS2-GN

High Density Modular Panel, 12 SC Simplex Adapter Module, Single Mode, OS2, Green Adapter



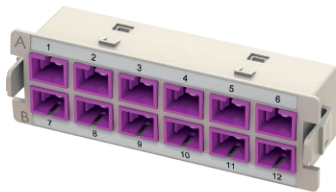
### HDM-PAM-12SCSX-OM2-BG

High Density Modular Panel, 12 SC Simplex Adapter Module, Multimode Mode, OM2, Beige Adapter



### HDM-PAM-12SCSX-OM3-AQ

High Density Modular Panel, 12 SC Simplex Adapter Module, Multimode Mode, OM3, Aqua Adapter



### HDM-PAM-12SCSX-OM4-VT

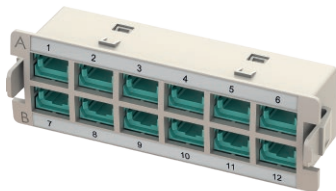
High Density Modular Panel, 12 SC Simplex Adapter Module, Multimode Mode, OM4, Violet Adapter

## Plastic Adapter Modules\_MTP Simplex (Opposed)



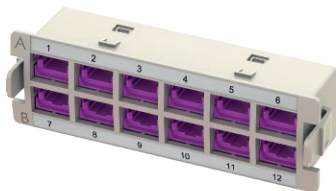
### HDM-PAM-12MTP-GEN-BL\_Opposed

High Density Modular Panel, 12 MTP Simplex Adapter Module, Generic, Black Adapter



### HDM-PAM-12MTP-OM3-AQ\_Opposed

High Density Modular Panel, 12 MTP Simplex Adapter Module, Multimode Mode, OM3, Aqua Adapter

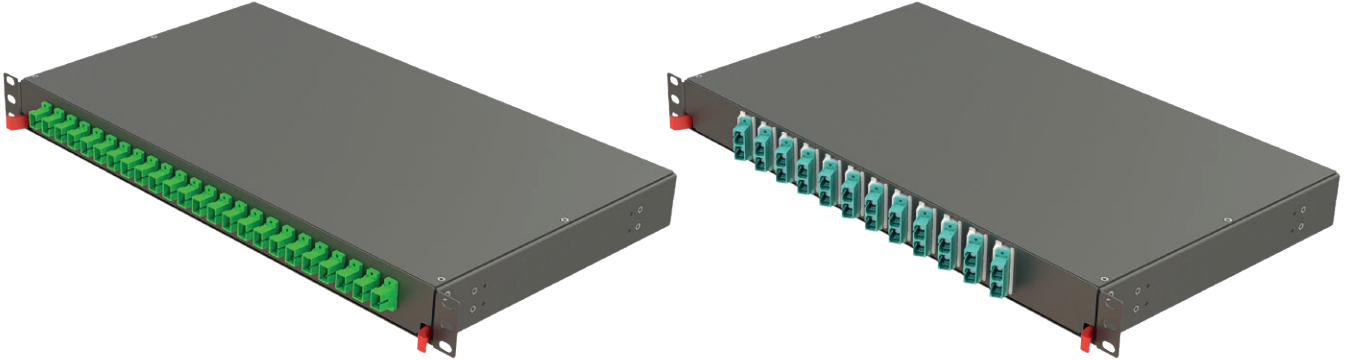


### HDM-PAM-12MTP-OM4-VT\_Opposed

High Density Modular Panel, 12 MTP Simplex Adapter Module, Multimode Mode, OM4, Violet Adapter

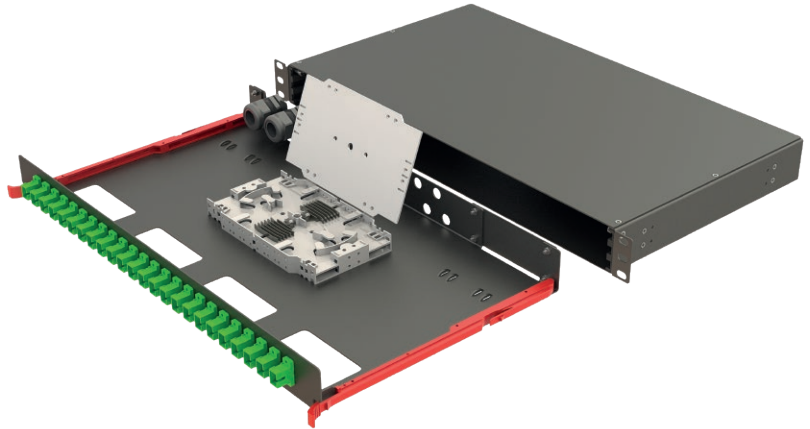
## 1U NGP Series New Generation Front Patch Panels

The new generation 1U NGP series panels are used to terminate and distribute optical fiber cables with high capacity, from 12 to 96 fibers. NGP panels are convenient equipment to organize and connect the fiber optic links, and are designed to be used in telecommunication networks, central offices, fiber optic infrastructure and on-premises fiber networks. Our fiber optic panels follow the typical rack mount standards, and they come with different kinds of optional fiber optic adapters, ports and pre-installed inner trays, accessories, and different types of pigtails.

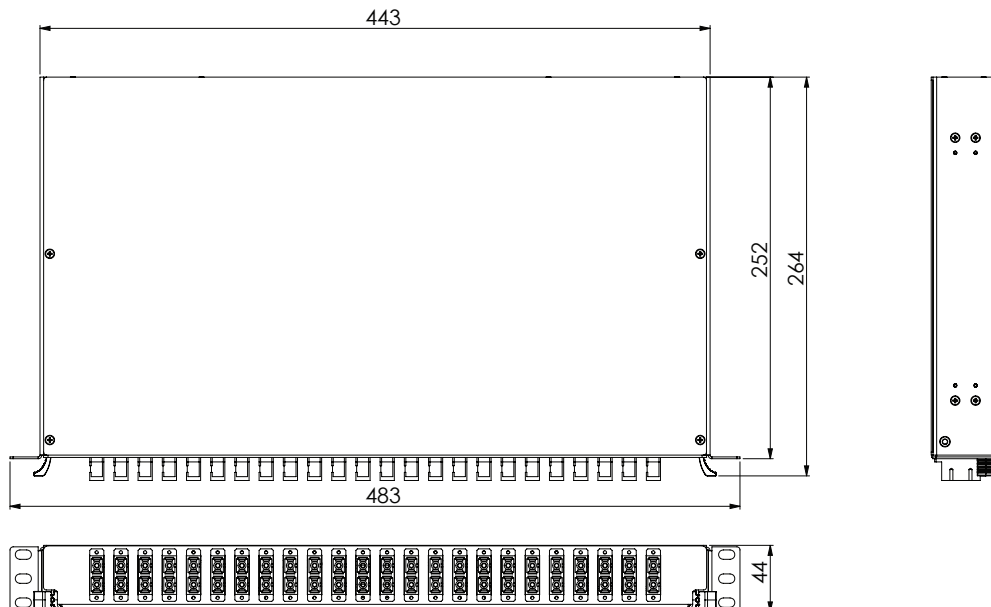


### Features





- Easy time-saving installation
- Patented rail system
- Angled front panel option
- Different front panel options
- Compact and safe design
- Rear cable entry
- Captive panel screws for easy/safe locking
- Easy connector and cable accessibility
- Bend radius protection

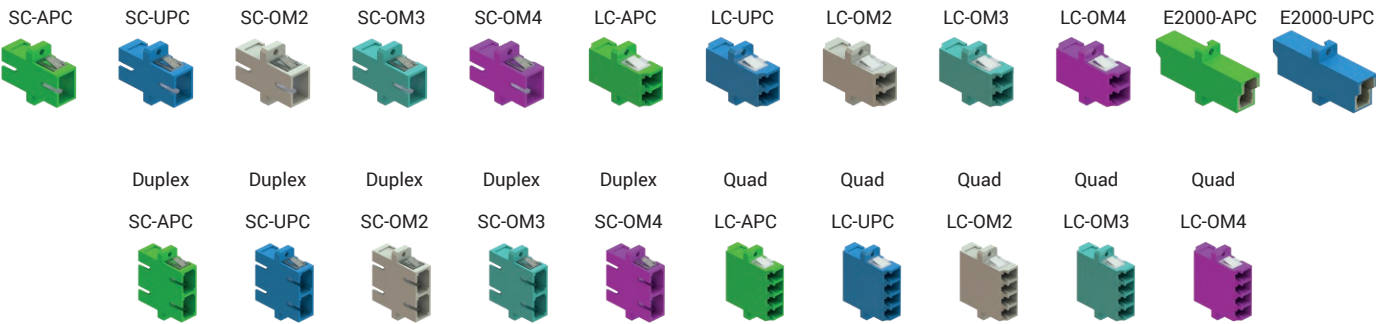


### Dimensions



NGP Series Front Panels

Front Panels	Panel Model		
	Panel Code	Hole Count	Available Adapter- Fiber Capacity
	NGP01	24	SC Simplex - 24 Fibers LC Duplex - 48 Fibers E2000 Simplex - 24 Fibers
	NGP02	24	SC Duplex - 48 Fibers LC Quad - 96 Fibers
	NGP03	12	SC Simplex - 12 Fibers LC Duplex - 24 Fibers E2000 Simplex - 12 Fibers
	NGP04	12	SC Duplex - 24 Fibers LC Quad - 48 Fibers



Ordering Coding 19" NGP Series Patch Panel

(sample coding)

NGP - 1U - NGP01 - A2 - SC - SX - 24

Height	Front Panel	Fiber Type	Connector	Port Options	Fiber Count
44 mm: 1U	Panel-01: NGP01 Panel-02: NGP02 Panel-03: NGP03 Panel-04: NGP04	Empty: NN G657.A1: A1 G657.A2: A2 G652.OM2: M2 G652.OM3: M3 G652.OM4: M4	Empty: NN SC/UPC: SC SC/APC: SA LC/UPC: LC LC/APC: LA FC/UPC: FC FC/APC: FA ST/UPC: ST E2000/UPC: E2 E2000/APC: EA	Empty: NN Simplex: SX Duplex: DX Quad: QD	Empty: 00 24 Fibers: 24 48 Fibers: 48 96 Fibers: 96

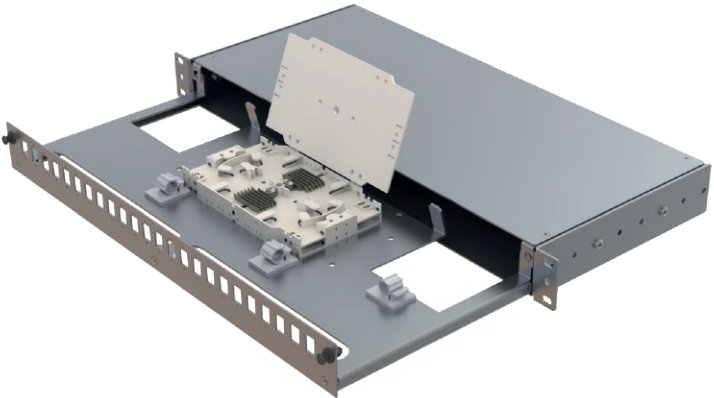
## 1U ATP Series Aluminium Front Patch Panels

ATP series panels are used to terminate and distribute optical fiber cables with high capacity, from 24 to 48 fibers. ATP panels are convenient equipment to organize and connect the fiber optic links, and are designed to be used in telecommunication networks, central offices, fiber optic infrastructure and on-premises fiber networks. Our fiber optic panels follow the typical rack mount standards, and they come with different kinds of optional fiber optic adapters, ports and pre-installed inner trays, accessories, and different types of pigtails



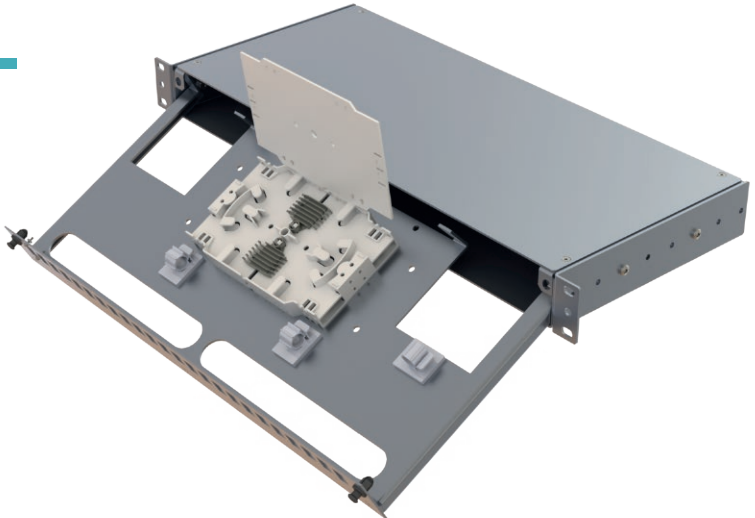
### Technical Data

Material	Anodized aluminium
Color	Aluminium silver
Capacity	48 fibers with LC-DX 24 fibers with SC-SX / LSH(E2000)-SX
2011/65/EC	(RoHS) fully compliant
Cassette	24F/Cassette with fusion splice holders
Dimensions	W:482/439 × D:230/200 × H:44 mm

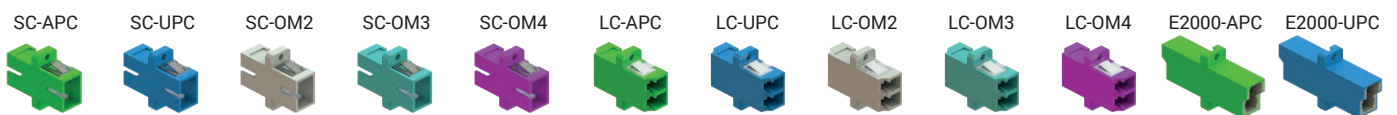


### Characteristics

- Easy and time-saving installation
- Standard 1U 19" size
- Lightweight aluminium construction
- Drawer tilt function for easy access
- Up to 48 fibers per 1U
- 2 perforated plates integrated in the rear of the housing
- Loose tube storage area in bottom of drawer

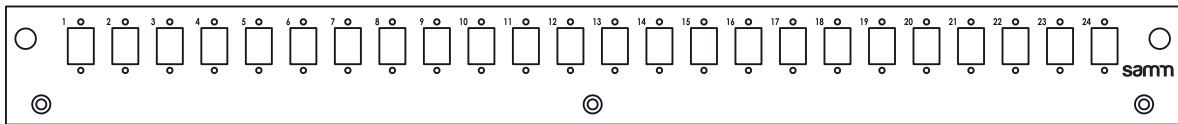


### Adapter Types

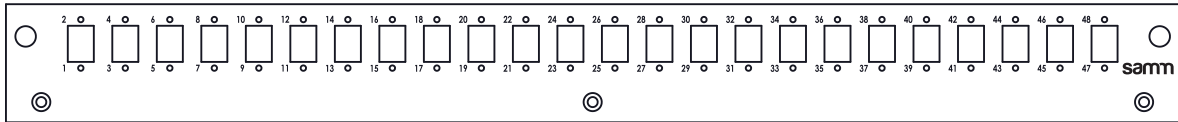


Front Panel Numbering

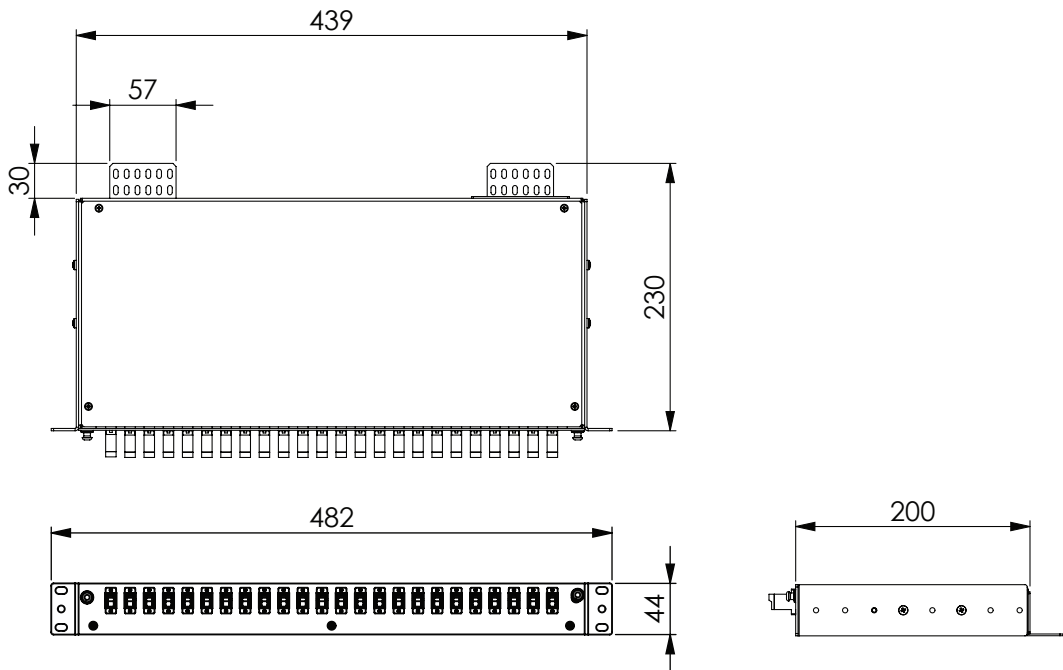
Panel Type P01 For SC and LSH(E2000)



Panel Type P02 For LC-DX



Dimensions and Drawings



Panel Contents

Content Details	Empty Panel Partially Loaded	SC/LSH(E2000) Fully Loaded	LC-DX Fully Loaded
Panel Body Capacity	1 PC	1 PC	1 PC
Sticky Storage and Management Clips	4 PC	4 PC	4 PC
24F Splice Cassettes	2 PC	2 PC	2 PC
Rack Mounting Set	1 SET	1 SET	1 SET
Cable Tie Set	1 SET	1SET	1 SET
Rear Blind Plate for one side closing	1 SET	1 PC	1 PC
Adapters Pre-assembled with screws	NONE	24 PC	24 PC
Fusion Splice Protection Sleeve   45mm	NONE	24 PC	48 PC
Pigtails ( Un-assembled )	NONE	24 PC	48 PC

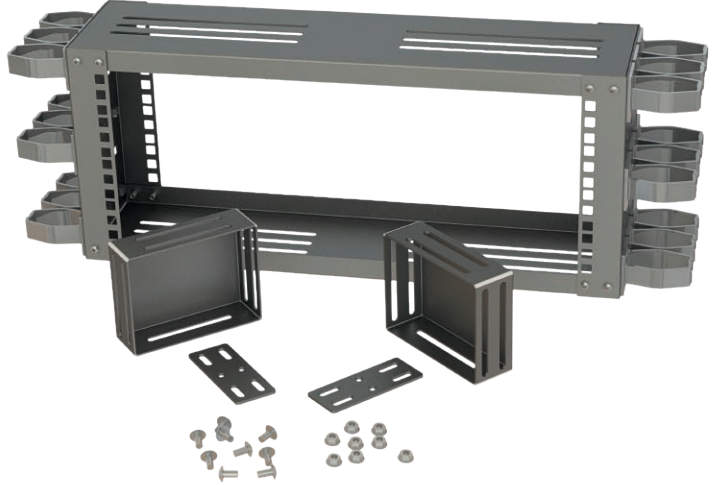


## 4U Overhead Mounting Rack Frame

4U overhead rack frame is designed to mount directly to overhead ladder racks or cable trays. Ideal for use as a Zone Distribution Area (ZDA) or Equipment Distribution Area (EDA) in datacenters.

The overhead rack frame shall provide additional four rack units above a rack or cabinet to maximize real estate utilization in data centers or telecommunication rooms. The frame works as a consolidation point, enabling flexible cabling layout as well as convenient addition of new enclosures and servers.

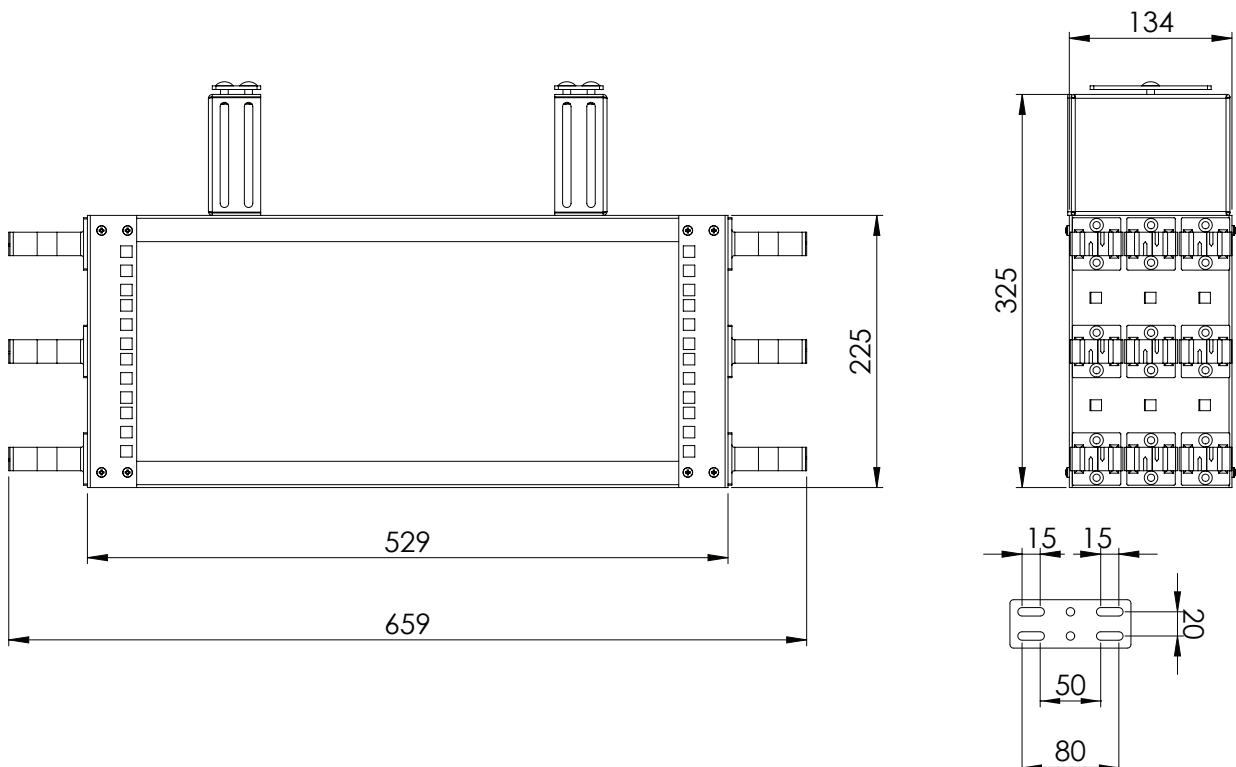
Used with copper patch panels or fiber enclosures, the cable tray rack can increase cabling density, improve cable routing, simplify moves, adds and changes and provide pre-cabled connectivity for rapid deployment of new cabinets, racks, and equipment.



### Key Features

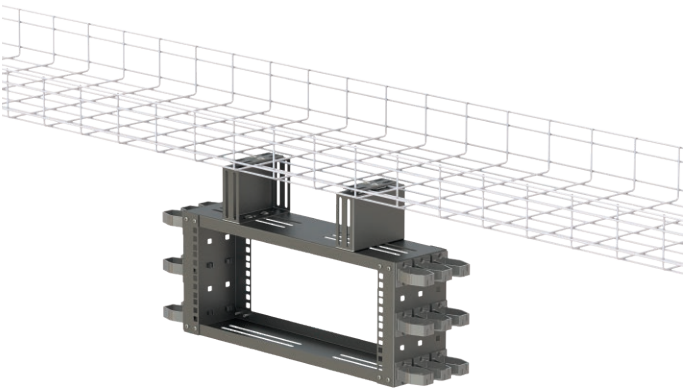
- Applicable to Ladder Rack Mounting
- Applicable to Wire Mesh Trays Mounting
- Bottom or side mounting options to cabling structures
- Quick and easy installation
- Rapid Data Center Deployment
- Mounting hardware and cable management included
- Epoxy Powder Paint , RAL 9005 , Black

### Dimensions

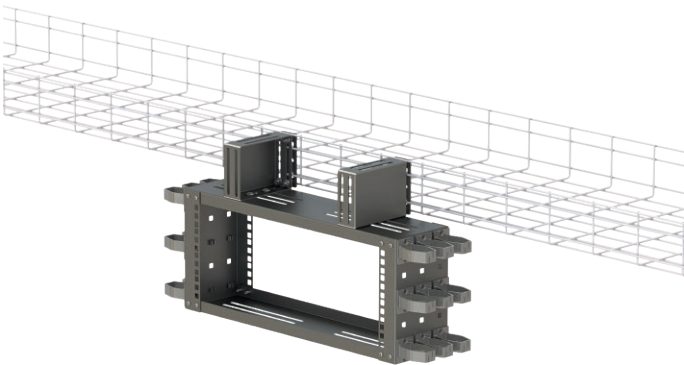


# Mounting Options

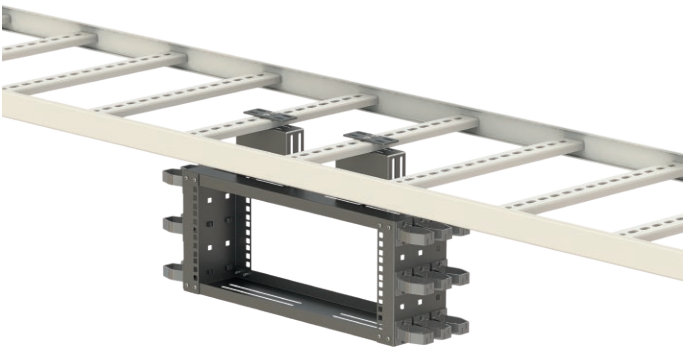
Wire Mesh Trays Underneath Mounting



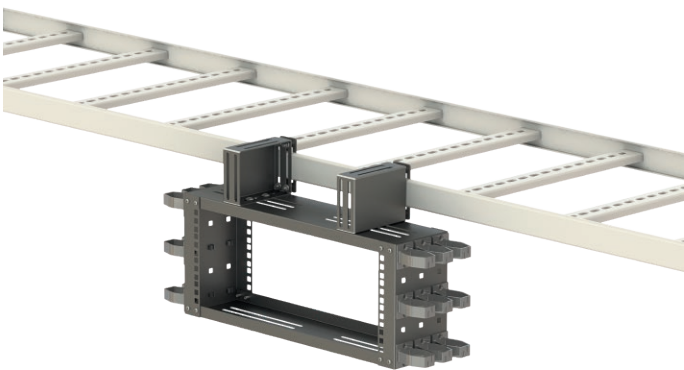
Wire Mesh Trays Side Mounting



Ladder Rack Underneath Mounting



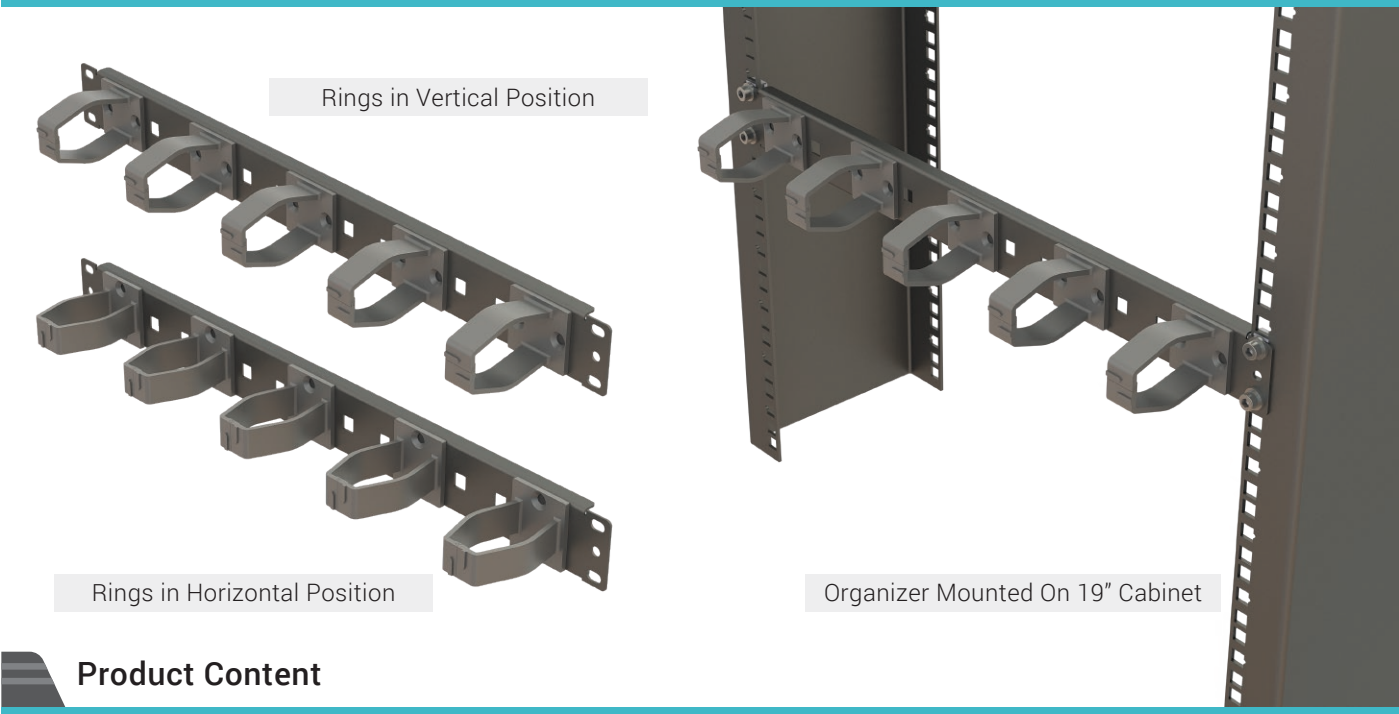
Ladder Rack Side Mounting



19" 1U Modular Cable Organizer | With 5 Snap In Rings

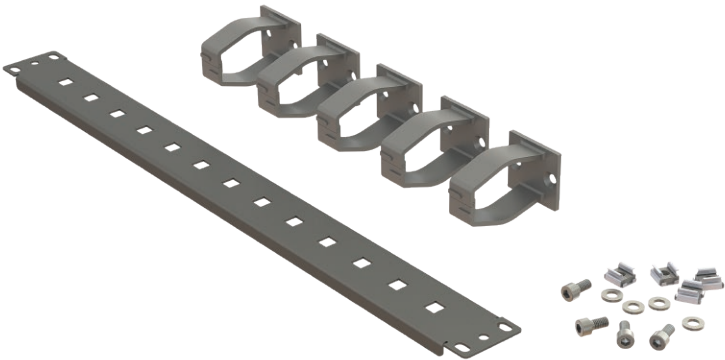
The new concept Cable Management Panel with fully modular rings configuration provides flexibility in Cable Management. Configurations can be vertical or horizontal or can be mixed by rotating the position of the rings on housing. No tools required for plugging the rings onto the cable management panel.

Optional Modularity for Different Applications



Product Content

- 1x 13 Slots Front Panel
- 5x Snap in Rings
- 4x M6 Screws
- 4x M6 Washers
- 4x M6 Cage Nuts



Ordering Codes

Product Code	Description
MT09614	19" 1U Modular Cable Organizer   With 5 Snap In Rings



## 1U 19" Tool-less Finger Grip Snap-in Blanking Panel (Plastic)

Blanking panels are part of the energy-saving airflow management solutions for smart data centers. They are designed to minimize bypass airflow in racks and cabinets while providing a desirable appearance. This panel has a knob on each side to be installed and removed easily with fingers grip, and it just needs to be pushed in to snap in its fixed position.

### Characteristics

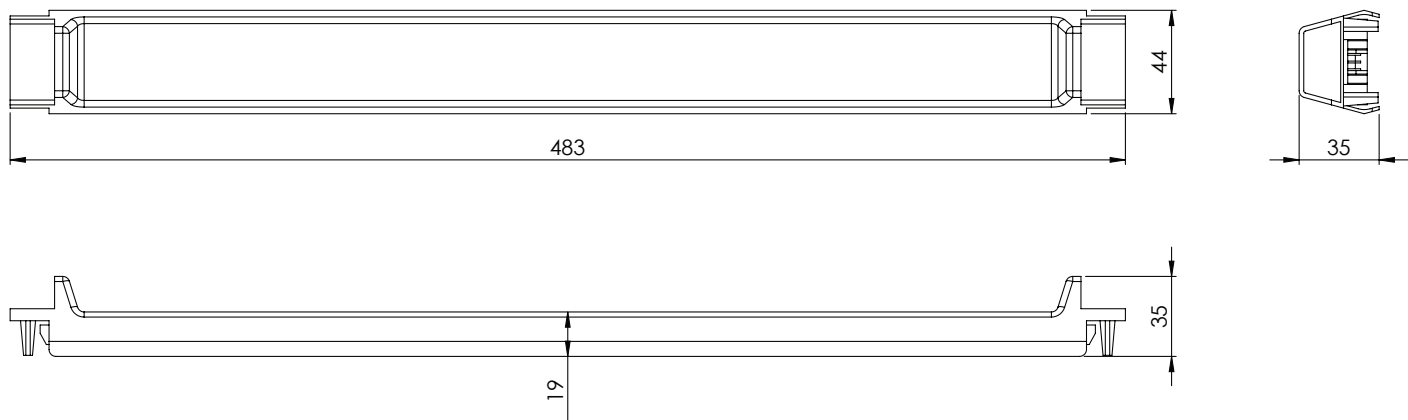
- Constructed of injection molded black plastic
- 19" Blanking panels are suitable for all type of 19" racks
- Quick installation with tool-less design
- Integrated finger grips provide easy installation and removal
- RoHS Compliant



### Ordering Information

Product Code	Description
MT09617	1U 19" Tool-less Snap-in Plastic Blanking Panel_Black ( 5PC/Pack )

### Dimensions and Drawing



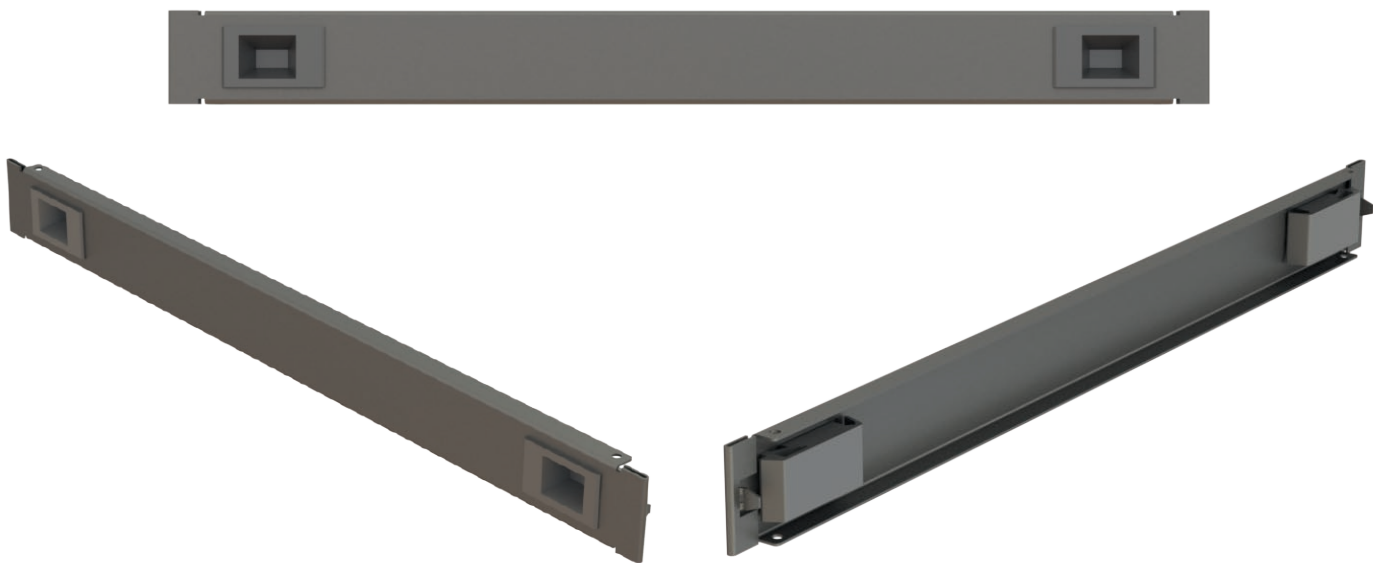


# 1U 19" Tool-less Latch Snap-in Blanking Panel (Metal)

Blanking panels are part of the energy-saving airflow management solutions for smart data centers. They are designed to minimize bypass airflow in racks and cabinets while providing a desirable appearance. This panel has a latch on each side to provide a more secure lock in position, and it cannot be removed without unhooking the latches sideways.

## Characteristics

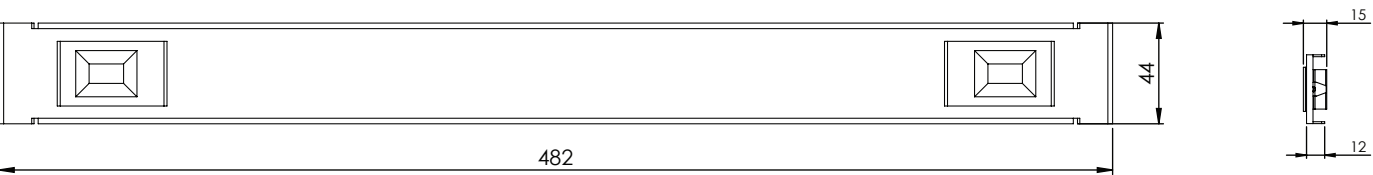
- Steel material, Epoxy Powder Coated Paint (RAL 9005)
- 19" Blanking panels are suitable for all type of 19" racks
- Quick installation with tool-less design
- Snap-in latches provide easy installation and removal
- RoHS Compliant



## Ordering Information

Product Code	Description
MT09615	19" 1U Blanking Panel Tool-less Latch Snap-in_Black (1 Pc/Pack)

## Dimensions and Drawing

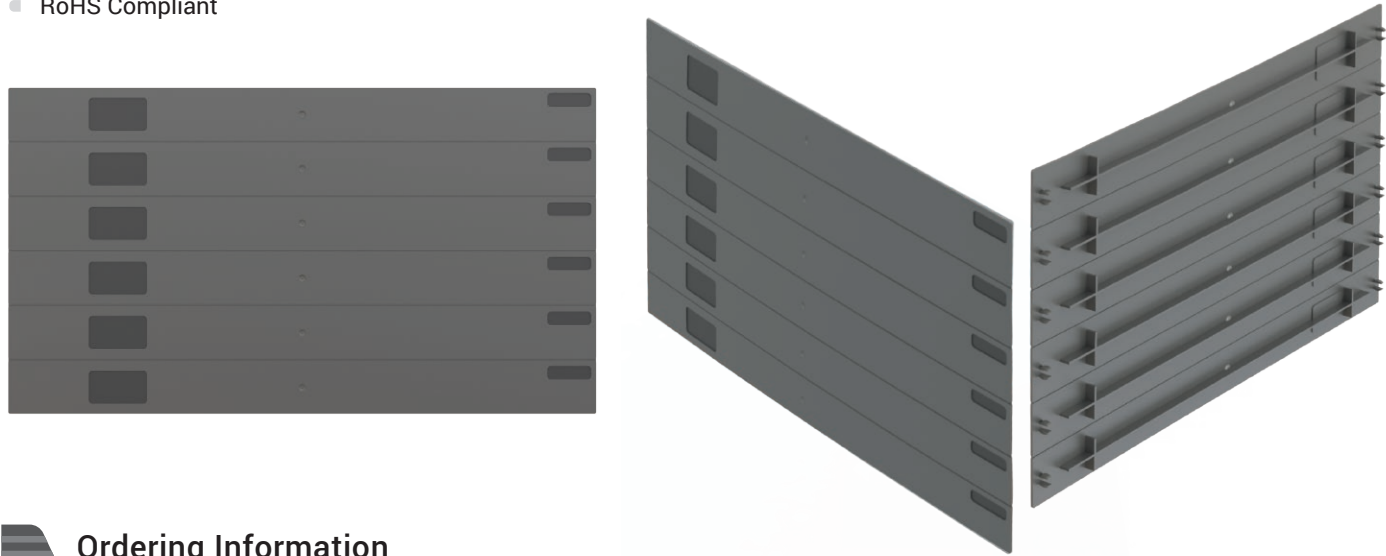


## 6U 19" Tool-less Snap-in Breakable Blanking Panel (Plastic)

Blanking panels are part of the energy-saving airflow management solutions for smart data centers. They are designed to minimize bypass airflow in racks and cabinets while providing a desirable appearance. This panel is good for closing multiple U sections together. It is made of 6 panels that can be broken apart to fit from 6 to 1 U sections, and each part can be snapped in position easily.

### Characteristics

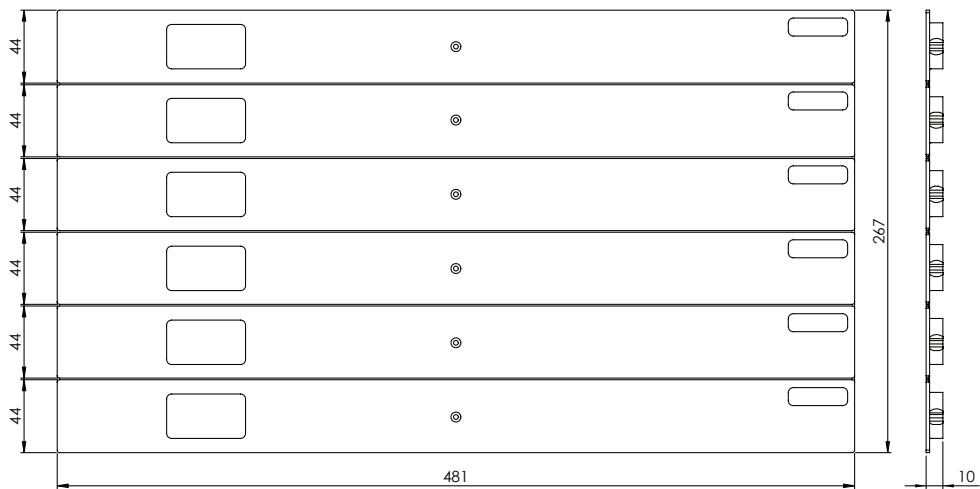
- Constructed of injection molded black plastic, (RAL 9005)
- Modularity on closing unused rack openings
- Breakable 6U design structure
- 19" Blanking panels are suitable for all type of 19" racks
- Integrated pop-in clips provide easy installation and removal
- RoHS Compliant



### Ordering Information

Product Code	Description
MT09616	19" 6U Tool-Less Snap-In 1Ux Breakable Blanking Panel_Black (1 Pc/Pack)

### Dimensions and Drawing



# 1U 19" Pass-Through Panel With Brush Strip

1U Pass-through Panels with Brush Strip is an ideal solution for routing cables from the front of the rack to the rear. The panels can be mounted on unused rack openings to reduce bypass airflow through open spaces in racks and cabinets. Brush strips provide a barrier to airflow, while allowing cables to be passed from the front to the rear of the rack.

## Characteristics

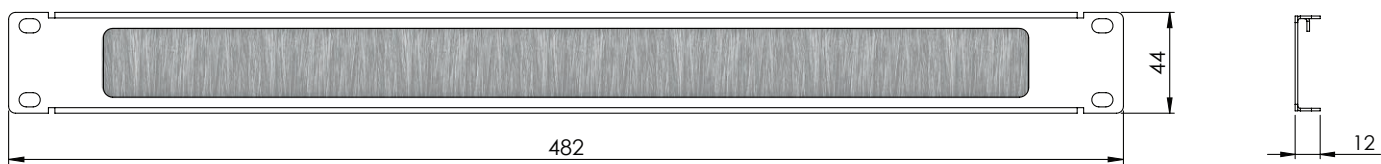
- Steel material, Epoxy Powder Coated Paint (RAL 9005)
- 19" Pass-Through panels are suitable for all type of 19" racks
- Separate and organize cables through a dense nylon brush strip
- Brush strip blocks unwanted airflow inside rack enclosures and server cabinets
- Improves cooling efficiency and segregates cold aisle from hot aisle
- RoHS Compliant



## Ordering Information

Product Code	Description
MT09618	1U 19" Pass-Through Panel with Brush Strip_Black

## Dimensions and Drawing







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