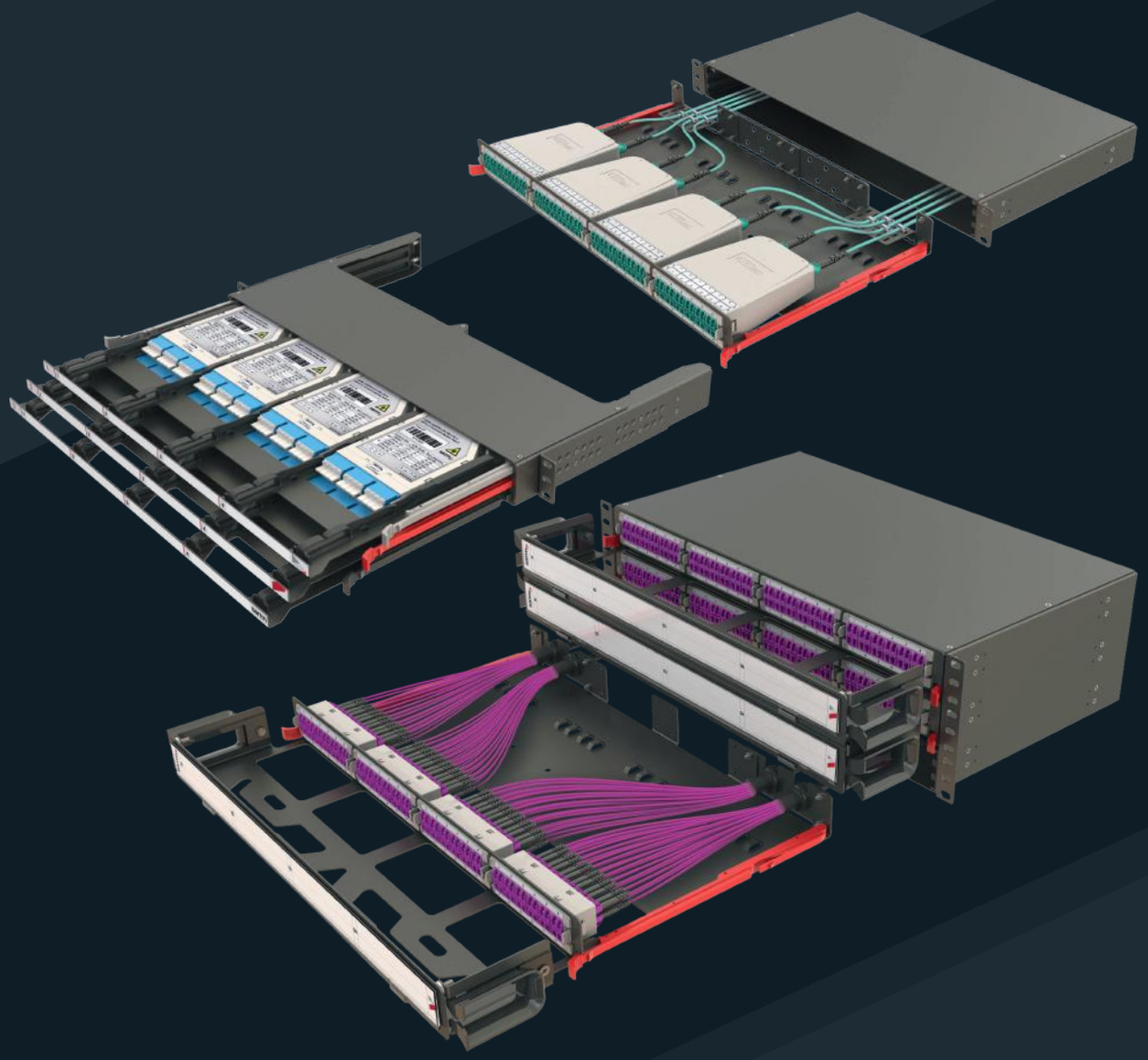
Same Products Online

DATA CENTER SOLUTIONS

samm teknoloji



FIBER OPTIC NETWORKS

telecom.samm.com

Founded in 2003, SAMM Technology offers cutting-edge products and services in the fields of telecommunication infrastructure and data center by producing in line with the expectations and needs of its customers.

With more than 20 years of experience, SAMM Technology has become one of the important suppliers of Europe in terms of capacity, technology and innovation by continuously investing in production, technology, R&D and people.

SAMM Teknoloji produces high performance fiber optic cables, fiber optic cable assemblies, data center infrastructure products and structured cabling solutions in its two factories located in the Gosb/Gebze industrial zone.

SAMM also has a ministry-approved research and development center since 2017.

20+ Years Experience

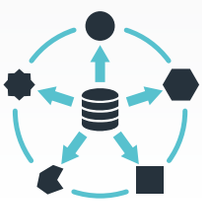
With more than 200 employees and 2 factories, we have achieved several significant projects in telecommunication fiber optic infrastructure.

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.

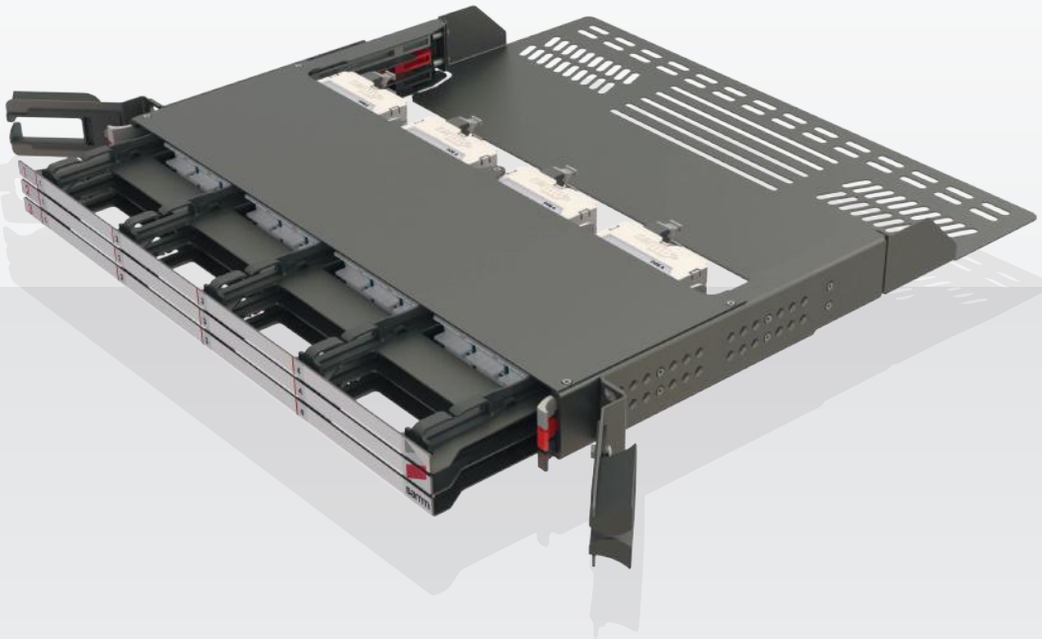
Connecting Continents

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



Innovative Solutions

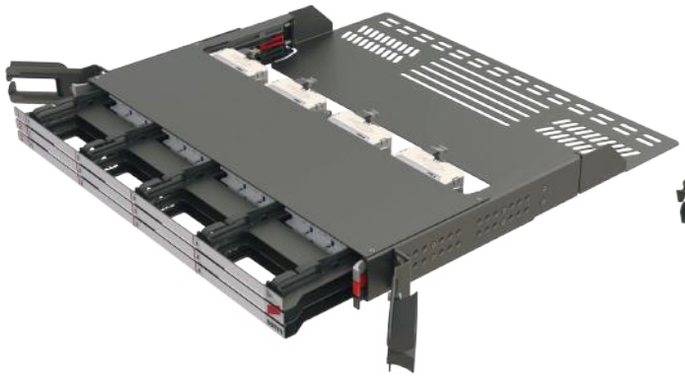
We are passionate about responding to customer demand and keeping pace with the ever evolving telecommunication and fiber optic technologies.

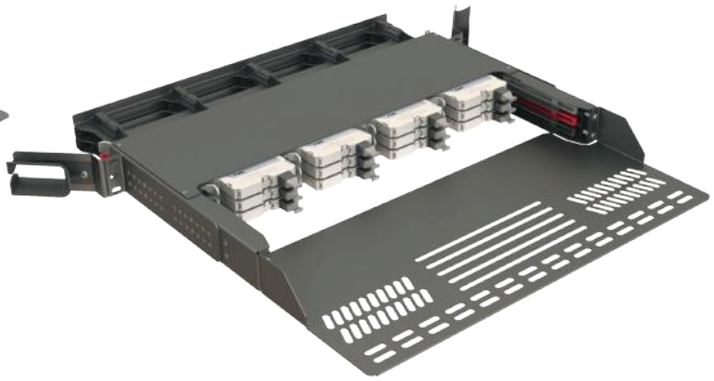


Data Center Fiber Optic Networks

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 section, within 12 UHD modules.





Features

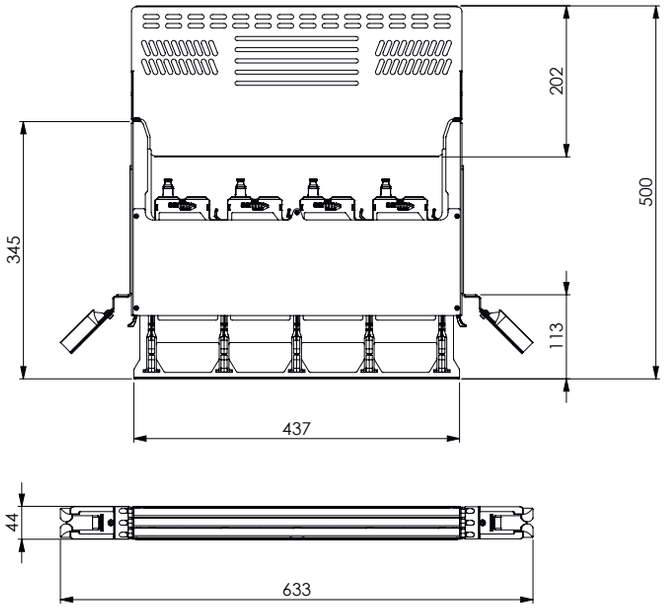
- Modular structure with many different variations
- Configurable tray structure for Base-8 and Base-12 topologies
- Patented Rail Design
- In 1U 144 LC connector capacity
- 3 individually sliding trays per 1U for maximum flexibility during operation and installation
- Patch cord management for each 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

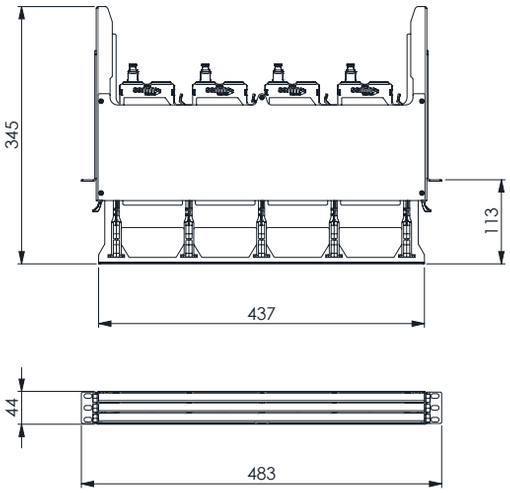
Dimensions

With Organizer

Without Organizer

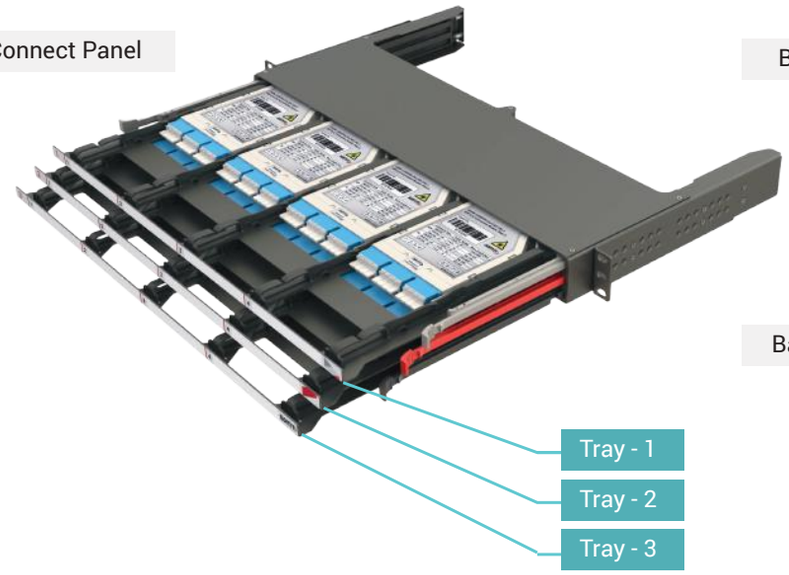
Unit: mm



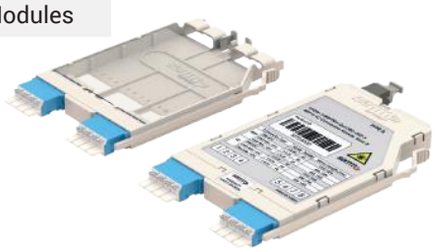


Different Backbone Design Options

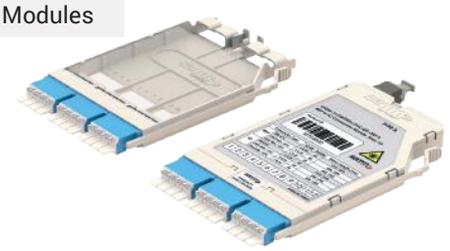
G-Connect Panel



Base-8 Modules



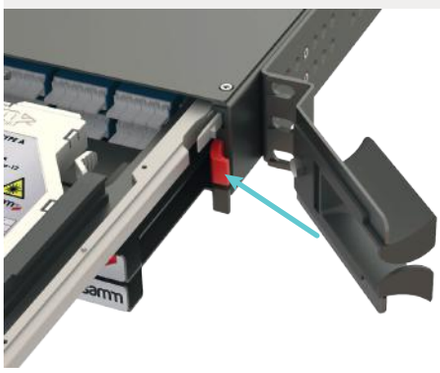
Base-12 Modules



Practical Benefits

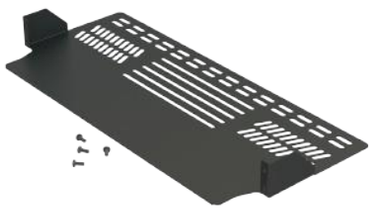
Sliding Rail Tray Lock with Release Arm

Tray Move-Out Lock Release Handle



Front Cable Guides

Rear Cable Organizer

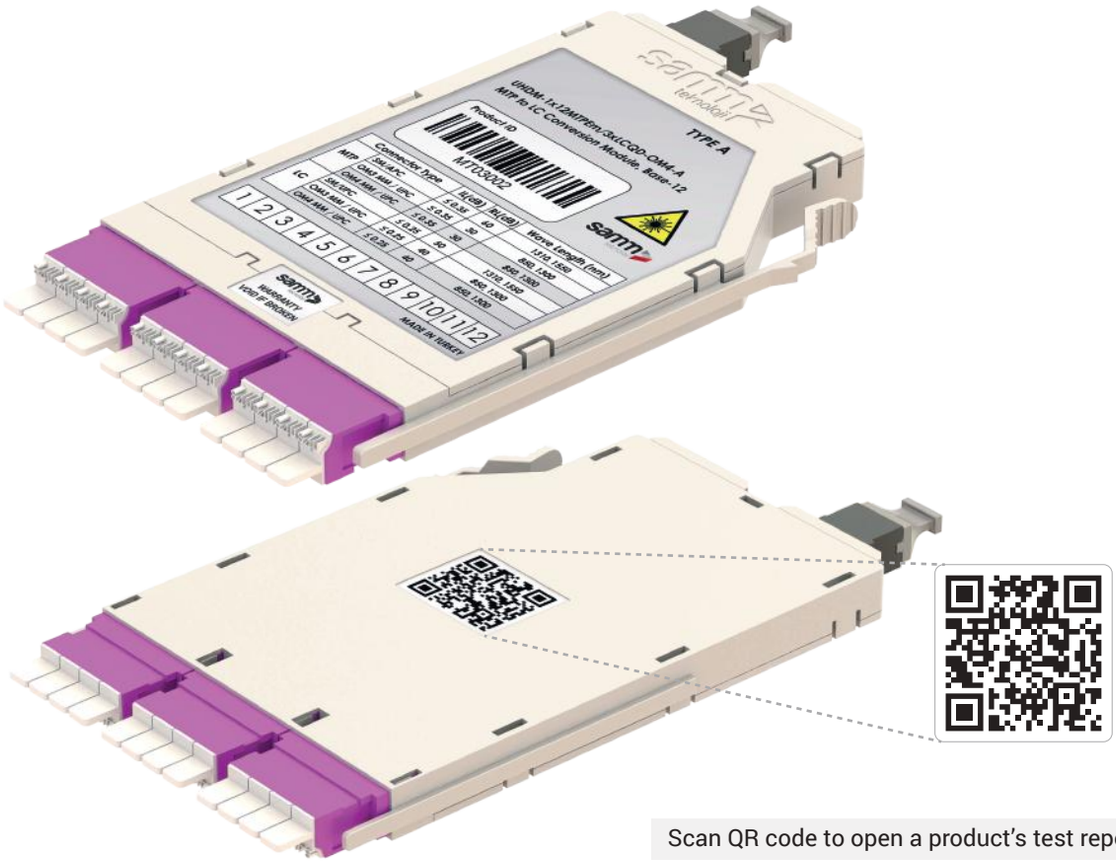


Order Coding

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 Modules Base-8 / Base-12

This ultra high-density MTP-LC conversion module is ideal for plug-and-play systems. The module 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 back adapters. This module has a thin design and a 1U panel can fit 12 modules in it.



Scan QR code to open a product's test report

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

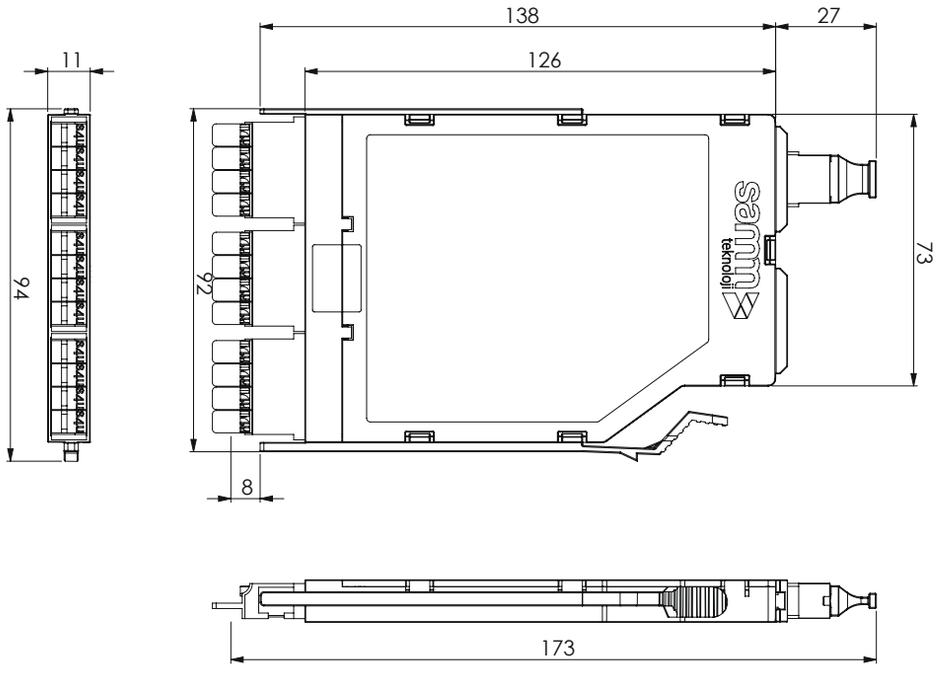
Optical Performance

Connector Type		IL(dB)	RL(dB)	Wavelength (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/UPC	≤ 0.25	50	1310, 1550
	OM3 MM / UPC	≤ 0.25	40	850, 1300
	OM4 MM / UPC	≤ 0.25	40	850, 1300

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 Materials 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

Dimensions



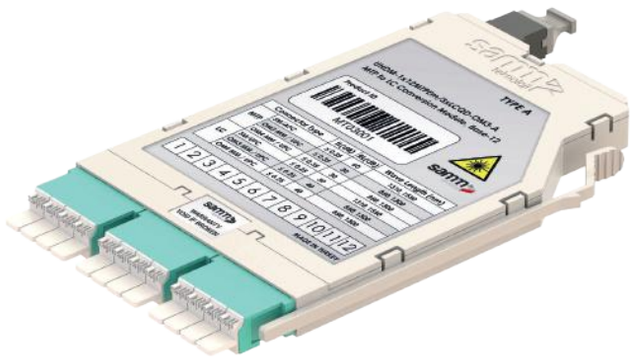
Unit: mm

telecom.samm.com/polarity
* Please refer to the Connectivity Hand Book for cabling polarity guidelines.

MTP-LC Conversion Modules Base-12

*(Please choose the right polarity wiring and fiber type - QR Code)

OS2 Base-12 Module	Code and Description
	UHDM-1x12MTPEm/3xLCQD-OS2-A OS2 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Blue, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type A
	UHDM-1x12MTPEm/3xLCQD-OS2-AF OS2 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Blue, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type AF
	UHDM-1x12MTPEm/3xLCQD-OS2-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 Module	Code and Description
	**UHDM-1x12MTPEm/3xLCQD-OM3-A** OM3 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Aqua, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type A
	UHDM-1x12MTPEm/3xLCQD-OM3-AF OM3 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Aqua, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type AF
	UHDM-1x12MTPEm/3xLCQD-OM3-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

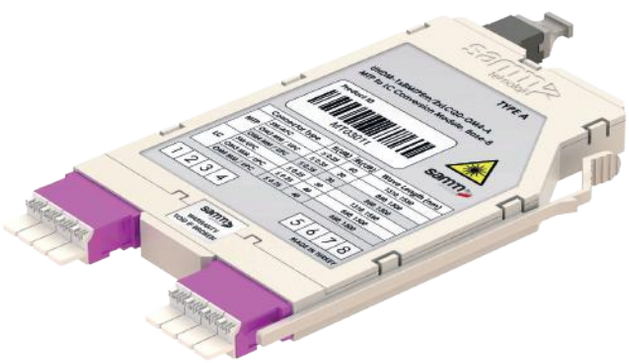
OM4 Base-12 Module	Code and Description
	UHDM-1x12MTPEm/3xLCQD-OM4-A OM4 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Violet, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type A
	UHDM-1x12MTPEm/3xLCQD-OM4-AF OM4 MTP to LC Conversion Module, Base-12, Front 3x LC Quad Adapter Violet, Rear 1x MTP12, Pinned, Adapter Body Black, Allocation Type AF
	UHDM-1x12MTPEm/3xLCQD-OM4-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 Modules Base-8

*(Please choose the right polarity wiring and fiber type - Page 06, QR Code)

OS2 Base-8 Module	Code and Description
	UHDM-1x8MTPEm/2xLCQD-OS2-A OS2 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Blue, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type A
	UHDM-1x8MTPEm/3xLCQD-OS2-AF OS2 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Blue, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type AF
	UHDM-1x8MTPEm/3xLCQD-OS2-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

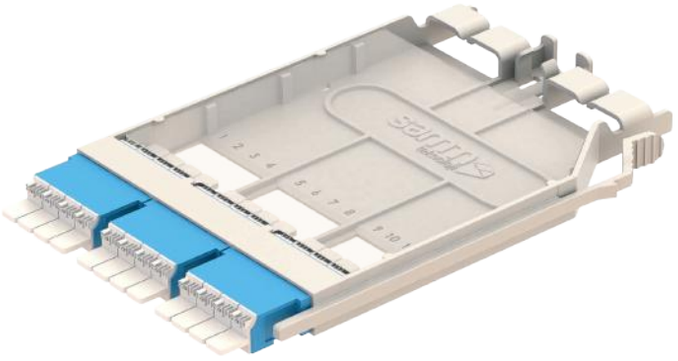
OM3 Base-8 Module	Code and Description
	UHDM-1x8MTPEm/2xLCQD-OM3-A OM3 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Aqua, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type A
	UHDM-1x8MTPEm/2xLCQD-OM3-AF OM3 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Aqua, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type AF
	UHDM-1x8MTPEm/2xLCQD-OM3-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

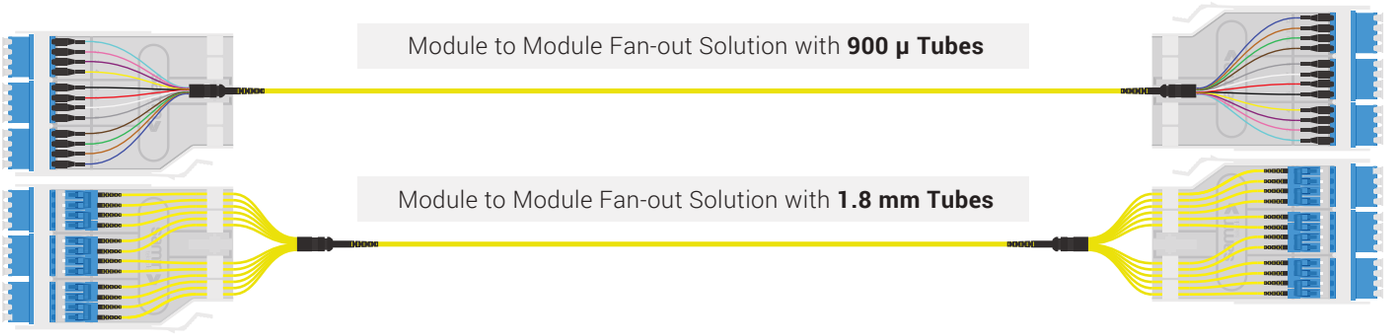
OM4 Base-8 Module	Code and Description
	**UHDM-1x8MTPEm/3xLCQD-OM4-A** OM4 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Violet, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type A
	UHDM-1x8MTPEm/3xLCQD-OM4-AF OM4 MTP to LC Conversion Module, Base-8, Front 2x LC Quad Adapter Violet, Rear 1x MTP8, Pinned, Adapter Body Black, Allocation Type AF
	UHDM-1x8MTPEm/3xLCQD-OM4-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

Patch Modules - Base-8 / Base-12

This patch module houses the interconnections between fiber optic assemblies and active equipment, it is designed to facilitate “end-to-end” parallel optics connectivity. 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 modules provide a straight through LC, SC or MTP patching field, which allows trunk cables to be connected directly to patch cords or harnesses.





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

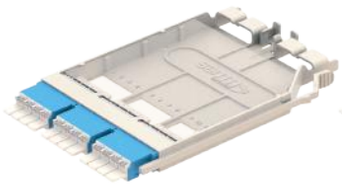
Technical Specifications

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

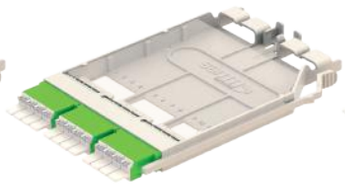
Certification and Compliance

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

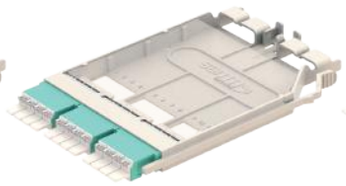
LC Patch Modules



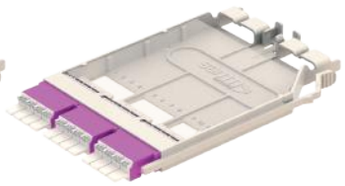
UHDM-PATCH-3xLCQDBLU-OS2



UHDM-PATCH-3xLCQDGRN-OS2

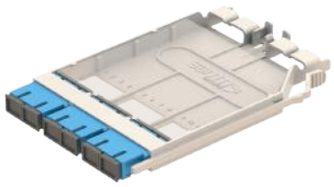


UHDM-PATCH-3xLCQDAQU-OM3

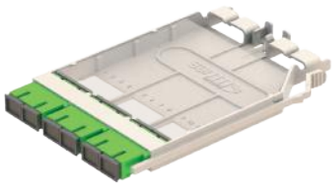


UHDM-PATCH-3xLCQDVIO-OM4

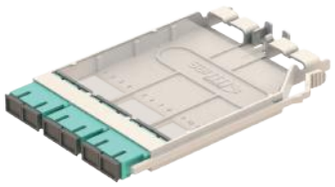
SC Patch Modules



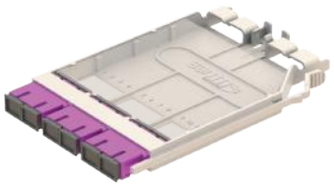
UHDM-PATCH-3xSCDXBLU-OS2



UHDM-PATCH-3xSCDXGRN-OS2

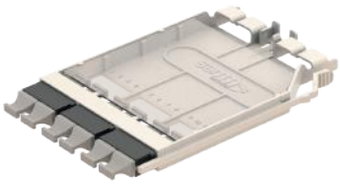


UHDM-PATCH-3xSCDXAQU-OM3

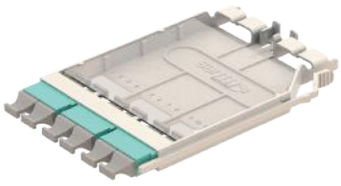


UHDM-PATCH-3xSCDXVIO-OM4

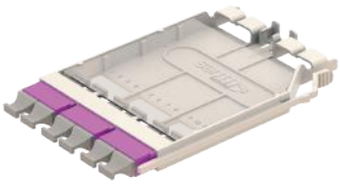
MTP Patch Modules



UHDM-PATCH-3xMTPDXBLK(OPPOSED)



UHDM-PATCH-3xMTPDXAQU(OPPOSED)



UHDM-PATCH-3xMTPDXVIO(OPPOSED)

High Density Modular Fiber Panels

High density modular fiber panels can terminate, organize and distribute up to 144/288 fibers. These panels are designed to be mounted on 19“ rack systems and they have 4 solts, in each 1U unit, that can hold MTP/LC conversion modules and MTP/LC/SC patch adapter modules. These HD modular fiber optic panels are 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.

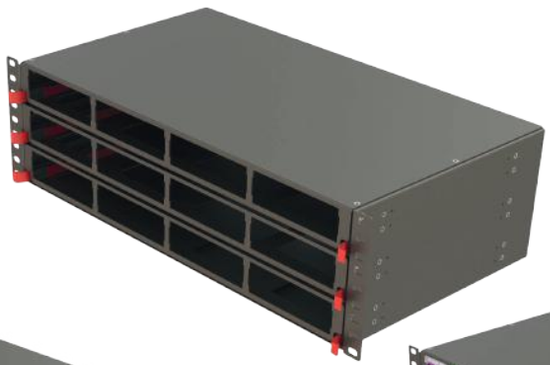
Optional Modularity for Different Applications

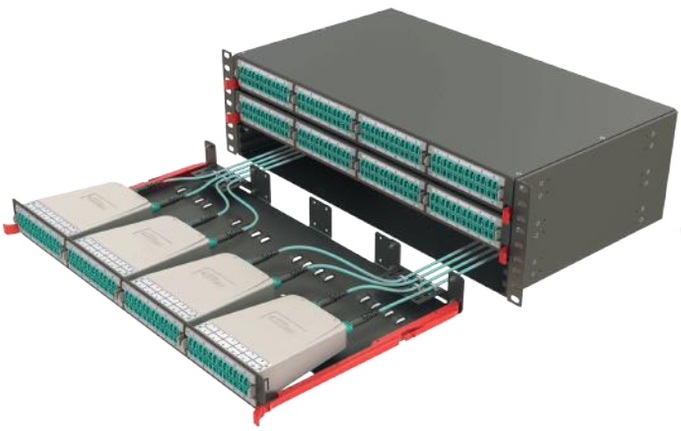
1U

2U

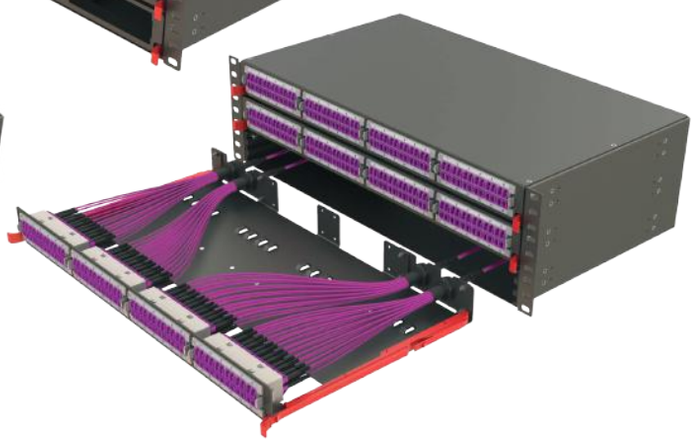
Empty Panels

3U





3U **MTP to LC** Conversion Panel



3U **Patch to Patch** Panel

Panel Capacity

Type of Panel		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 Panel (8 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	96/192	768/1152/2304	192	96
3U Panel (12 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	144/288	1152/1728/3456	288	144

High Density Modular Fiber Panels with Front Organizer

These panels are similar to the HD modular fiber panels, but they come with a front cable organizer. The front cable organizer is fit for 1U, 2U or 3U sections according to the height of the panel. It helps in saving cabinet space and arranging the cabling system. The smart design of the front organizer offers easier cable management and extends the life of cables, connectors and fiber network components.

Optional Modularity for Different Applications

1U

2U

Empty Panels
with **Front Organizer**

3U

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

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

Panel Capacity

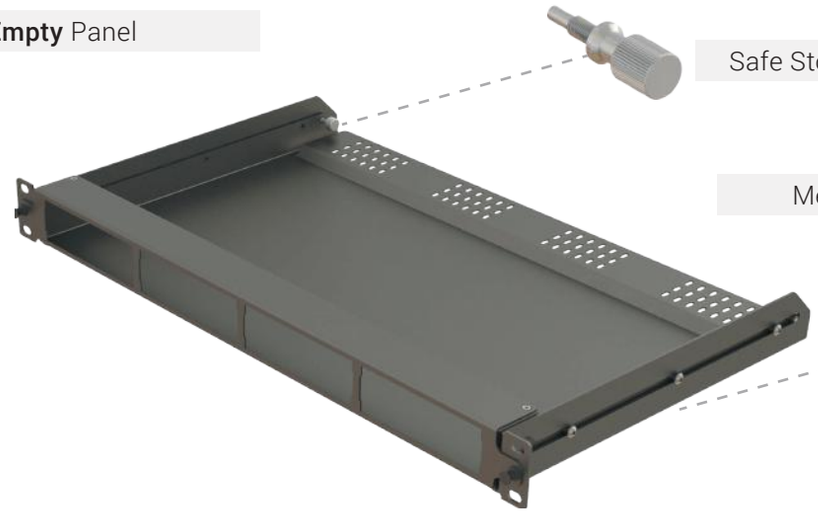
Type of Panel		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
1U Panel (4 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	48/96	384/576/1152	96	48
2U Panel (8 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	96/192	768/1152/2304	192	96
3U Panel (12 Slots)	Module 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

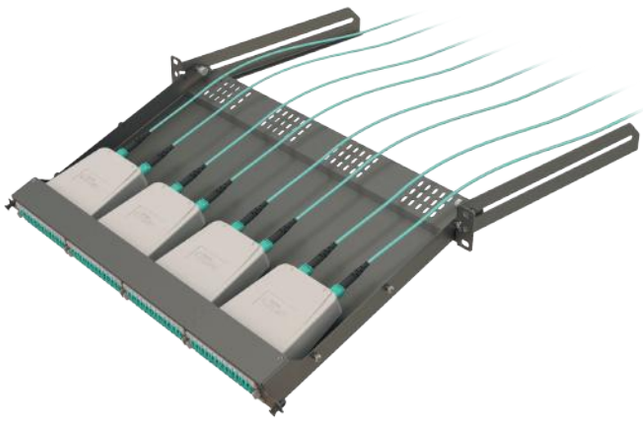
1U high density modular fiber optic panels can terminate, organize and distribute up to 48/96 fibers. These panels are designed to be mounted on 19“ rack systems and they have 4 slots in a 1U unit that can hold conversion modules and MTP/LC/SC patch adapter modules. High Density Modular Fiber Panels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

Optional Modularity for Different Applications

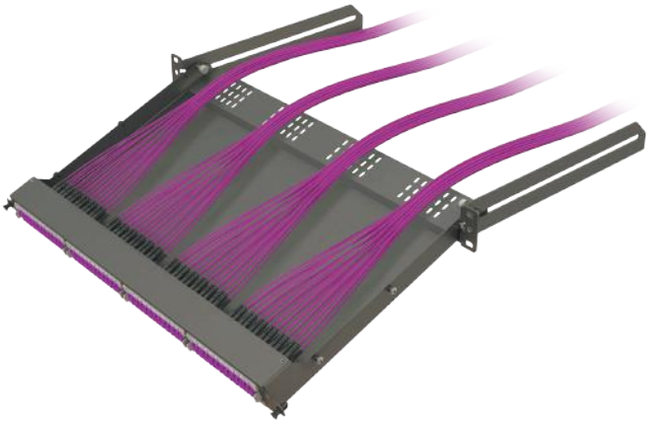
1U **Empty** Panel



1U **Conversion** Panel



1U **Patch to Patch** Panel



Panel Capacity

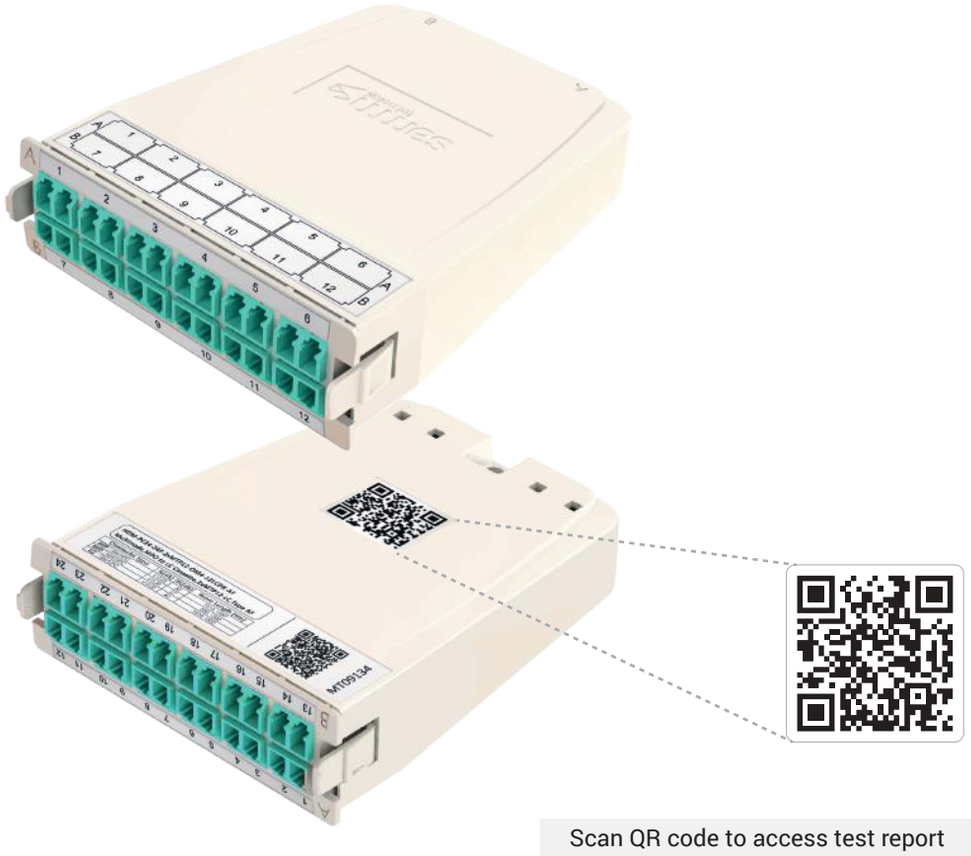
Type of Modules		Conversion Modules	Patch Modules		
		MTP to LC	MTP to MTP	LC	SC
1U Panel (4 Slots)	Module Capacity	12/24	96/144/288	24	12
	Panel Capacity	48/96	384/576/1152	96	48

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

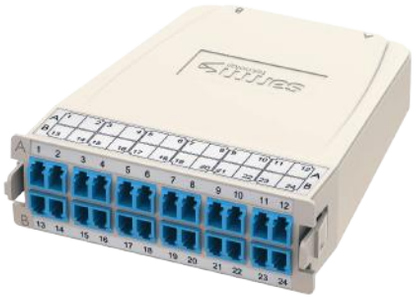
Technical Specifications

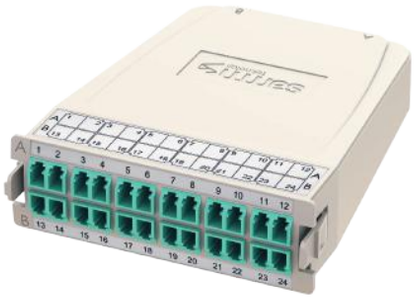
Plastic module materials	PC/ABS Blend, Light Grey
Flammability rate	UL94-V0
RoHS	Compliant
Operating temperature	-20°C to +60°C
Storage temperature	-25°C to +70°C

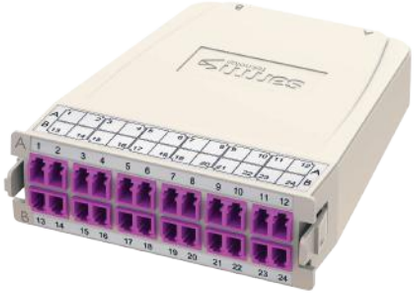
telecom.samm.com/polarity
* Please refer to the Connectivity Hand Book for cabling polarity guidelines.

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

*(Please choose the right polarity wiring and fiber type - QR Code)

OS2 Base-24 to 12 LC Duplex Module	Code and Description
	**HDM-PC24 -24F-1xMTP24-OS2-12LCDX-A** Single Mode, A2, 9/125, MTP to LC Module, 1xMTP24-LC, Type A
	HDM-PC24 -24F-1xMTP24-OS2-12LCDX-AF Single Mode, A2, 9/125, MTP to LC Module, 1xMTP24-LC, Type AF
	HDM-PC24 -24F-1xMTP24-OS2-12LCDX-B Single Mode, A2, 9/125, MTP to LC Module, 1xMTP24-LC, Type B

OM3 Base-24 to 12 LC Duplex Module	Code and Description
	**HDM-PC24 -24F-1xMTP24-OM3-12LCDX-A** Multimode Mode, OM3, 50/125, MTP to LC Module, 1xMTP24-LC, Type A
	HDM-PC24 -24F-1xMTP24-OM3-12LCDX-AF Multimode Mode, OM3, 50/125, MTP to LC Module, 1xMTP24-LC, Type AF
	HDM-PC24 -24F-1xMTP24-OM3-12LCDX-B Multimode Mode, OM3, 50/125, MTP to LC Module, 1xMTP24-LC, Type B

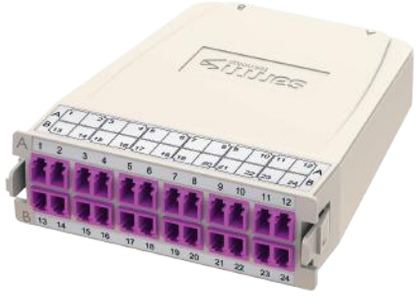
OM4 Base-24 to 12 LC Duplex Module	Code and Description
	**HDM-PC24 -24F-1xMTP24-OM4-12LCDX-A** Multimode Mode, OM4, 50/125, MTP to LC Module, 1xMTP24-LC, Type A
	HDM-PC24 -24F-1xMTP24-OM4-12LCDX-AF Multimode Mode, OM4, 50/125, MTP to LC Module, 1xMTP24-LC, Type AF
	HDM-PC24 -24F-1xMTP24-OM4-12LCDX-B Multimode Mode, OM4, 50/125, MTP to LC Module, 1xMTP24-LC, Type B

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

*(Please choose the right polarity wiring and fiber type - Page 14, QR Code)

OS2 2xBase-12 to 12 LC Duplex Module	Code and Description
	HDM-PC24 -24F-2xMTP12-OS2-12LCDX-A Single Mode, A2, 9/125, MTP to LC Module, 2xMTP12-LC, Type A
	HDM-PC24 -24F-2xMTP12-OS2-12LCDX-AF Single Mode, A2, 9/125, MTP to LC Module, 2xMTP12-LC, Type AF
	HDM-PC24 -24F-2xMTP12-OS2-12LCDX-B Single Mode, A2, 9/125, MTP to LC Module, 2xMTP12-LC, Type B

OM3 2xBase-12 to 12 LC Duplex Module	Code and Description
	HDM-PC24 -24F-2xMTP12-OM3-12LCDX-A Multimode Mode, OM3, 50/125, MTP to LC Module, 2xMTP12-LC, Type A
	HDM-PC24 -24F-2xMTP12-OM3-12LCDX-AF Multimode Mode, OM3, 50/125, MTP to LC Module, 2xMTP12-LC, Type AF
	HDM-PC24 -24F-2xMTP12-OM3-12LCDX-B Multimode Mode, OM3, 50/125, MTP to LC Module, 2xMTP12-LC, Type B

OM4 2xBase-12 to 12 LC Duplex Module	Code and Description
	**HDM-PC24 -24F-2xMTP12-OM4-12LCDX-A** Multimode Mode, OM4, 50/125, MTP to LC Module, 2xMTP12-LC, Type A
	HDM-PC24 -24F-2xMTP12-OM4-12LCDX-AF Multimode Mode, OM4, 50/125, MTP to LC Module, 2xMTP12-LC, Type AF
	HDM-PC24 -24F-2xMTP12-OM4-12LCDX-B Multimode Mode, OM4, 50/125, MTP to LC Module, 2xMTP12-LC, Type B

telecom.samm.com/polarity
* Please refer to the Connectivity Hand Book for cabling polarity guidelines.

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

*(Please choose the right polarity wiring and fiber type - QR Code)

OS2 Base-12 to 6 LC Duplex Module	Code and Description
	HDM-PC12 -12F-1xMTP12-OS2-06LCDX-A Single Mode, A2, 9/125, MTP to LC Module, 1xMTP12-LC, Type A
	HDM-PC12 -12F-1xMTP12-OS2-06LCDX-AF Single Mode, A2, 9/125, MTP to LC Module, 1xMTP12-LC, Type AF
	HDM-PC12 -12F-1xMTP12-OS2-06LCDX-B Single Mode, A2, 9/125, MTP to LC Module, 1xMTP12-LC, Type B

OM3 Base-12 to 6 LC Duplex Module	Code and Description
	HDM-PC12 -12F-1xMTP12-OM3-06LCDX-A Multimode Mode, OM3, 50/125, MTP to LC Module, 1xMTP12-LC, Type A
	HDM-PC12 -12F-1xMTP12-OM3-06LCDX-AF Multimode Mode, OM3, 50/125, MTP to LC Module, 1xMTP12-LC, Type AF
	HDM-PC12 -12F-1xMTP12-OM3-06LCDX-B Multimode Mode, OM3, 50/125, MTP to LC Module, 1xMTP12-LC, Type B

OM4 Base-12 to 6 LC Duplex Module	Code and Description
	HDM-PC12 -12F-1xMTP12-OM4-06LCDX-A Multimode Mode, OM4, 50/125, MTP to LC Module, 1xMTP12-LC, Type A
	HDM-PC12 -12F-1xMTP12-OM4-06LCDX-AF Multimode Mode, OM4, 50/125, MTP to LC Module, 1xMTP12-LC, Type AF
	HDM-PC12 -12F-1xMTP12-OM4-06LCDX-B Multimode Mode, OM4, 50/125, MTP to LC Module, 1xMTP12-LC, Type B

Optical Values

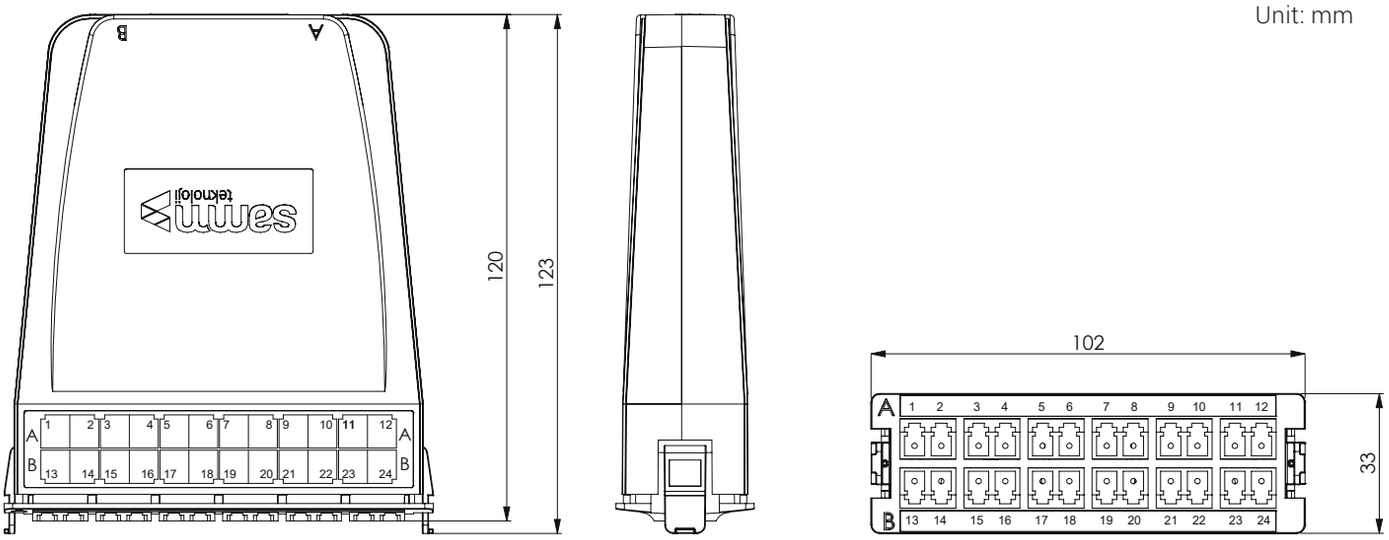
Connector Type		IL(dB)	RL(dB)	Wave Length (nm)
MTP	SM/APC	≤ 0.35	60	1310, 1550
	OM3 MM / UPC	≤ 0.35	30	850, 1300
	OM4 MM / UPC	≤ 0.35	30	850, 1300
LC	SM/UPC	≤ 0.25	50	1310, 1550
	OM3 MM / UPC	≤ 0.25	40	850, 1300
	OM4 MM / UPC	≤ 0.25	40	850, 1300

Certification And Compliance

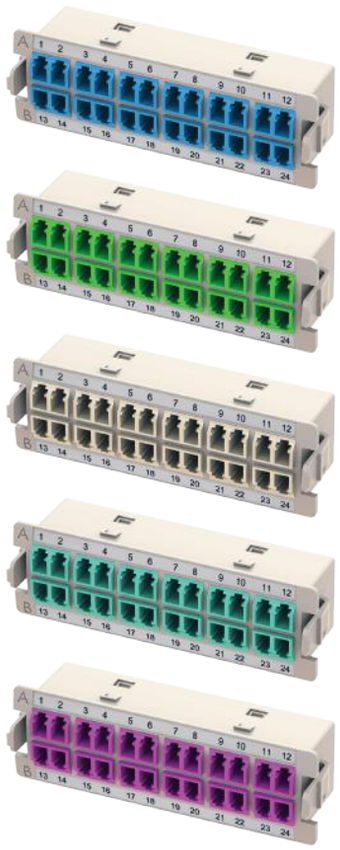
ANSI/TIA-942-A Telecommunications Infrastructure Standard for Data Centers	**IEC 60874-1** Connectors for Optical Fibers and Cables; Generic Standard
ANSI/TIA-568-C.3 Optical Fiber Cabling Components Standard	**IEC 61300** Fiber Optic Interconnecting Devices and Passive Components; Basic Test and Measurement 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

Module Dimensions

Unit: mm



Plastic Adapter Modules LC Duplex



12x LC Duplex Adapters - 24 Fibers

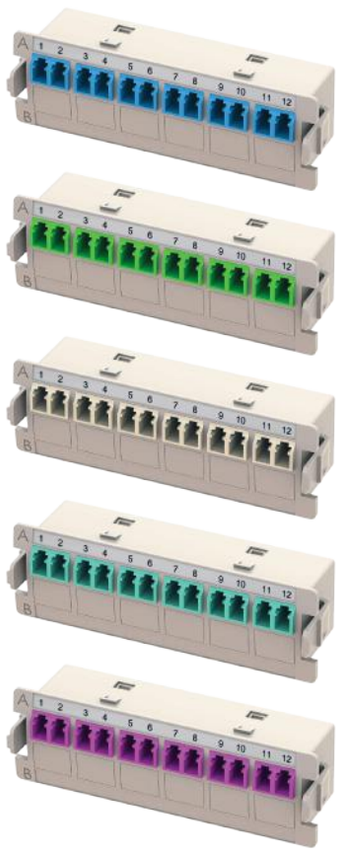
HDM-PAM-12LCDX-OS2-BU
High Density Modular Panel, 12 LC Duplex Adapter Module, Single Mode, OS2, Blue Adapter

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



6x LC Duplex Adapters - 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

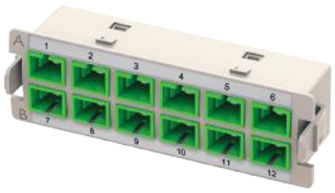
HDM-PAM-06LCDX-OM3-AQ
High Density Modular Panel, 6 LC Duplex Adapter Module, Multimode Mode, OM3, Aqua Adapter

HDM-PAM-06LCDX-OM4-VT
High Density Modular Panel, 6 LC Duplex Adapter Module, Multimode Mode, OM4, Violet Adapter

Plastic Adapter Modules SC Simplex

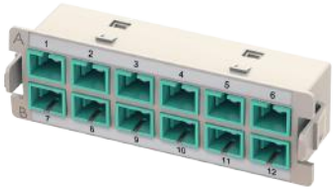
12x SC Simplex Adapters - 12 Fibers

HDM-PAM-12SCSX-OS2-BU
High Density Modular Panel, 12 SC Simplex Adapter Module, Single Mode, OS2, Blue Adapter

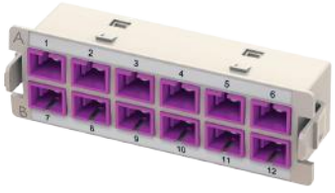


HDM-PAM-12SCSX-OS2-GN
High Density Modular Panel, 12 SC Simplex Adapter Module, Single Mode, OS2, Green Adapter

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 (Opposed)

12x MTP Adapters - 96/144/288 Fibers

HDM-PAM-12MTP-GEN-BK_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

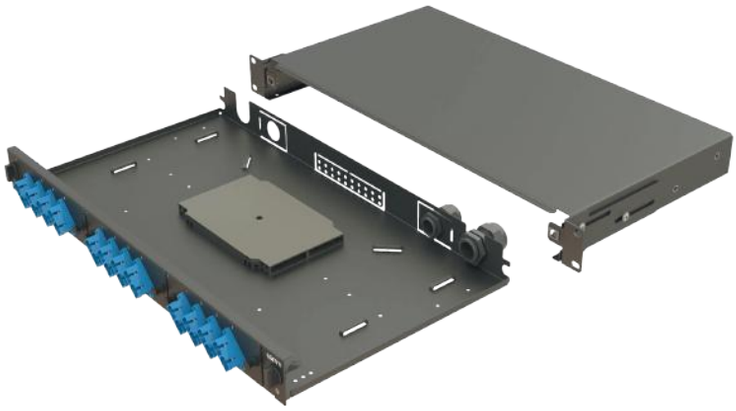
HDM-PAM-12MTP-OM4-VT_Opposed
High Density Modular Panel, 12 MTP Simplex Adapter Module, Multimode Mode, OM4, Violet Adapter

Modular-Type Bright Series Fiber Optic Patch Panels | Mechanical-Sliding, 1U

Modular-Type Bright Series Mechanical Sliding Panel Systems are designed for modularity that allows 3 different adapter module options. These panels can be opened and closed by sliding on the bottom surface of the side walls.

The panels are also available blank or pre-assembled with a wide variety of connector types up to 48 Fiber capacities. Adapter modules can be mounted/dismounted with plastic clip structures.

These panels are used in telecom rooms, main distribution rooms and system rooms to terminate, distribute and manage fiber/copper optic infrastructure in many different applications and needs with a wide variety of fiber optic adapter / connector options such as LC / SC / FC / ST / MTP / E2000 / LSH and RJ-45.



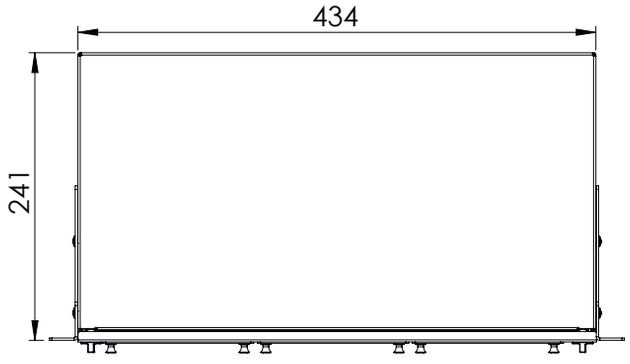
Features and Benefits

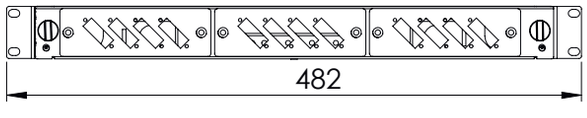
- Interchangeable and modular design for both fiber and copper connectors
- Safe tray lock mechanisim with two simple plastic quarter turn lock
- One basic unit fits all types of connectors - providing high flexibility, low cost and easy to handle stock
- Robust and installer-friendly design - providing reduced installation and operating costs
- Different rear cable entry options with PG16 and PG13,5 gland holes
- Screwable desing on FO adapter plates
- Fast installation modules with snap in fixation latches
- Adjustable depth in rack
- Powder-coated RAL 9000 (Black)
- Operating temperature: -20°C / +80°C

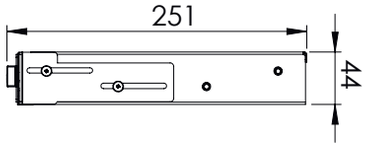
Compliance/Certifications

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
Flammability rating UL94 V-0
ROHS Compliant

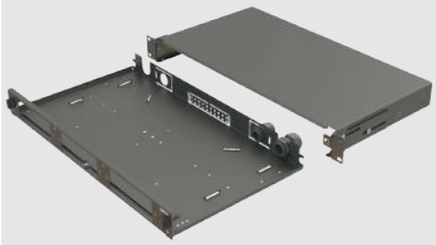
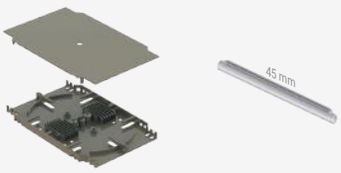
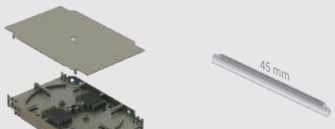
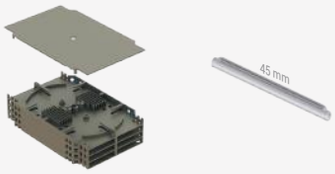
Dimensions



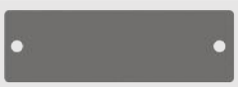
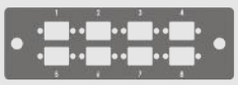
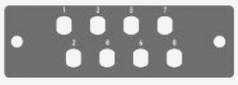
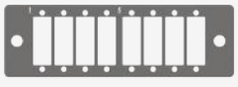




Order Codes for Panel

Picture	Description	Order Code
	Bright Series Modular Panel, Mechanical Sliding 1U, 3 Slot Capacity	BSMOD-1U-MSV0-FP3S-EMPTY
	**Single Splice Kits**	**Order Code**
	Splice Tray Kit 1: 1x12F Tray + 12 Pcs of Splice Protectors Splice Tray Kit 2: 1x24F Tray + 24 Pcs of Splice Protectors	BS-SPLKIT1-12F-1T-BLK BS-SPLKIT2-24F-1T-BLK
	**Group Splice Kits**	**Order Code**
	Splice Tray Kit 3: 2x12F Tray + 24 Pcs of Splice Protectors Splice Tray Kit 4: 2x24F Tray + 48 Pcs of Splice Protectors	BS-SPLKIT3-24F-2T-BLK BS-SPLKIT4-48F-2T-BLK
	**Group Splice Kits**	**Order Code**
	Splice Tray Kit 5: 4x12F Tray + 48 Pcs of Splice Protectors	BS-SPLKIT5-48F-4T-BLK

Order Codes for Front Modules

Picture	Description	Order Code
	Blank Module for Bright Series Modular Panel	BS-BM01_1Pc BS-BM01_1Pc
	4xSC Simplex Horizontal Module for Bright Series Modular Panel	BS-BM02_1Pc BS-BM02_3Pcs
	8xSC Simplex Horizontal Module for Bright Series Modular Panel	BS-BM03_1Pc BS-BM03_3Pcs
	4xSC Duplex Angled Module for Bright Series Modular Panel	BS-BM04_1Pc BS-BM04_3Pcs
	4xKeystone Module for Bright Series Modular Panel	BS-BM05_1Pc BS-BM05_3Pcs
	8xST or 8xFC(D-hole) Module for Bright Series Modular Panel	BS-BM06_1Pc BS-BM06_3Pcs
	8xSC Simplex Module for Bright Series Modular Panel	BS-BM07_1Pc BS-BM07_3Pcs
	8xSC Duplex Module for Bright Series Modular Panel	BS-BM08_1Pc BS-BM08_3Pcs

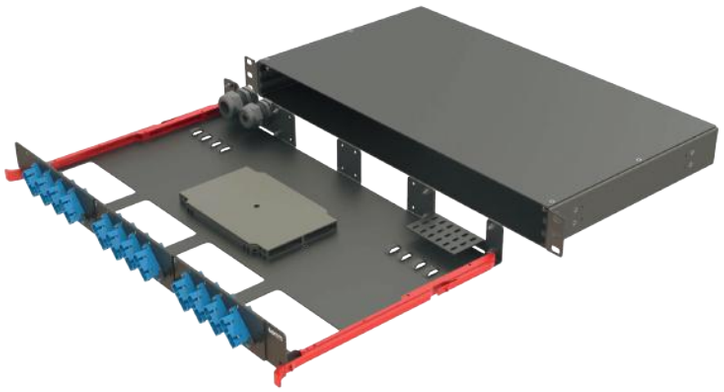
*** Note: Adapters and pigtails will be ordered separately, please visit (LINK) telecom.samm.com

Modular-Type Bright Series Fiber Optic Patch Panels | Rail-Sliding, 1U

Modular-Type Bright Series Rail Sliding Panel Systems are designed for modularity that allows 3 different adapter module options. These panels can be opened and closed on a plastic rail mechanism.

The panels are also available blank or pre-assembled with a wide variety of connector types up to 48 Fiber capacities. Adapter modules can be mounted/dismounted with plastic clip structures.

These panels are used in telecom rooms, main distribution rooms and system rooms to terminate, distribute and manage fiber/copper optic infrastructure in many different applications and needs with a wide variety of fiber optic adapter / connector options such as LC / SC / FC / ST / MTP / E2000 / LSH and RJ-45.



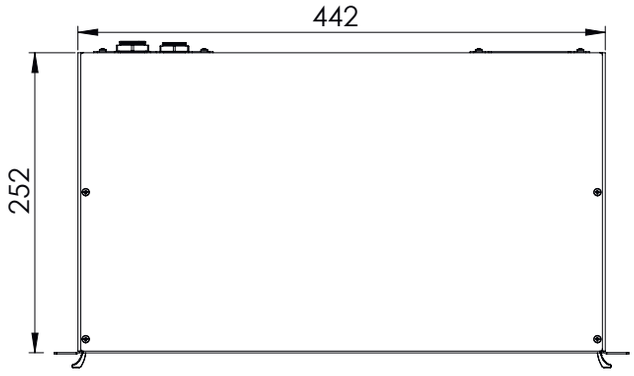
Features and Benefits

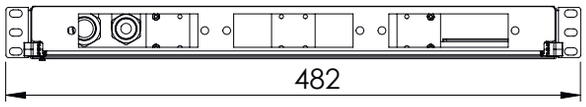
- Interchangeable and modular design for both fiber and copper connectors
- Special plastic rail and locking mechanism
- One basic unit fits all types of connectors - providing high flexibility, low cost and easy to handle stock
- Robust and installer-friendly design - providing reduced installation and operating costs
- Different rear cable entry options with PG16 and PG13,5 gland holes
- Screwable desing on FO adapter plates
- Fast installation modules with snap in fixation latches
- Removable shelf design for installation easiness
- Powder-coated RAL 9000 (Black)
- Operating temperature: -20°C / +80°C

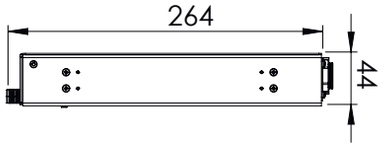
Compliance/Certifications

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
Flammability rating UL94 V-0
ROHS Compliant

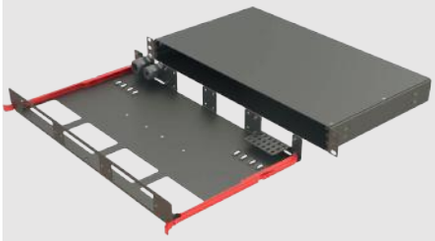
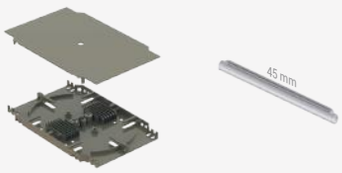
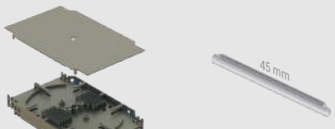
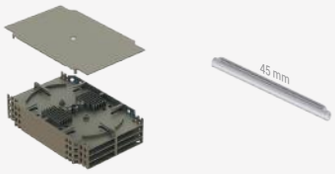
Dimensions



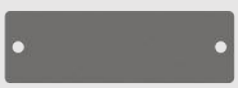
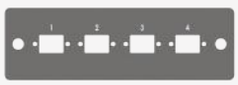
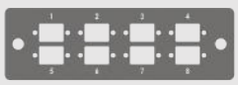




Order Codes for Panel

Picture	Description	Order Code
	Bright Series Modular Panel, Rail Sliding 1U, 3 Slot Capacity	BSMOD-1U-RSV0-FP3S-EMPTY
	**Single Splice Kits**	**Order Code**
	Splice Tray Kit 1: 1x12F Tray + 12 Pcs of Splice Protectors Splice Tray Kit 2: 1x24F Tray + 24 Pcs of Splice Protectors	BS-SPLKIT1-12F-1T-BLK BS-SPLKIT2-24F-1T-BLK
	**Group Splice Kits**	**Order Code**
	Splice Tray Kit 3: 2x12F Tray + 24 Pcs of Splice Protectors Splice Tray Kit 4: 2x24F Tray + 48 Pcs of Splice Protectors	BS-SPLKIT3-24F-2T-BLK BS-SPLKIT4-48F-2T-BLK
	**Group Splice Kits**	**Order Code**
	Splice Tray Kit 5: 4x12F Tray + 48 Pcs of Splice Protectors	BS-SPLKIT5-48F-4T-BLK

Order Codes for Front Modules

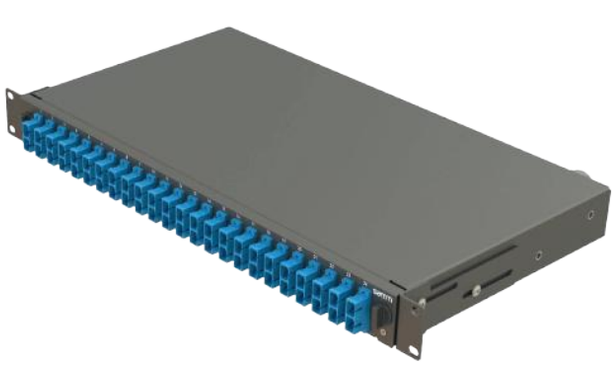
Picture	Description	Order Code
	**Blank Module for Bright Series Modular Panel**	BS-BM15_1Pc
	**4xSC Simplex Horizontal Module for Bright Series Modular Panel**	BS-BM09_1Pc BS-BM09_3Pcs
	**8xSC Simplex Horizontal Module for Bright Series Modular Panel**	BS-BM10_1Pc BS-BM10_3Pcs
	4xSC Duplex Angled Module for Bright Series Modular Panel	BS-BM11_1Pc BS-BM11_3Pcs
	4xKeystone Module for Bright Series Modular Panel	BS-BM12_1Pc BS-BM12_3Pcs
	8xST or 8xFC(D-hole) Module for Bright Series Modular Panel	BS-BM13_1Pc BS-BM13_3Pcs
	8xSC Simplex Module for Bright Series Modular Panel	BS-BM14_1Pc BS-BM14_3Pcs

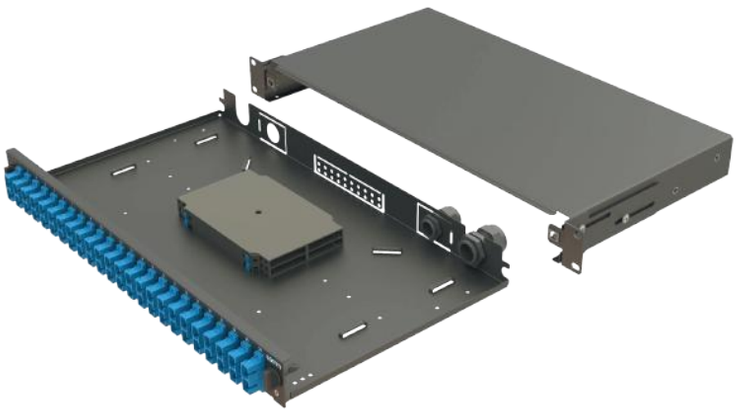
*** Note: Adapters and pigtails will be ordered separately, please visit (LINK) telecom.samm.com

Fixed-Type Bright Series Fiber Optic Patch Panels | Mechanical-Sliding, 1U

Fixed-Type Bright Series Mechanical-Sliding Patch Panel Systems are designed for termination of up to 96 optical fibers according to the selected front panel structure. These panels can be opened and closed by sliding on the bottom surface of the side walls.

The panels are also available blank or pre-assembled with a wide variety of connector types up to 96 Fiber capacities. 1U fiber distribution panels are flexible to achieve diversified applications in the telecom room and main distribution area, to work with various adaptor fiber optic adapter/connector types such as LC/SC/FC/ST/MTP/E2000/LSH.





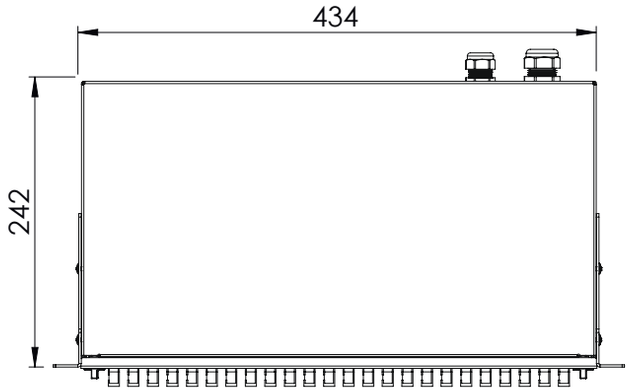
Features and Benefits

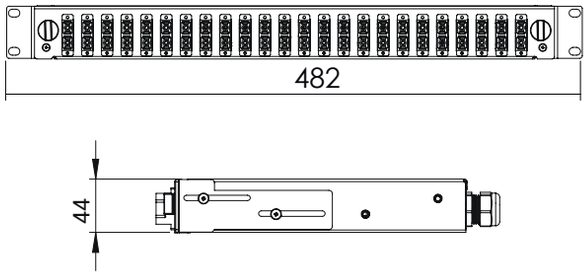
- Safe tray lock mechanisim with two simple plastic quarter turn lock
- Robust and installer-friendly design - providing reduced installation and operating costs
- Wide range of front plate options for different types of adapters
- Different rear cable entry options with PG16 and PG13,5 gland holes
- Screwable desing on FO adapter plates
- Adjustable depth in rack
- Powder-coated RAL 9000 (Black)
- Operating temperature: -20°C / +80°C

Compliance/Certifications

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
Flammability rating UL94 V-0
ROHS Compliant

Dimensions

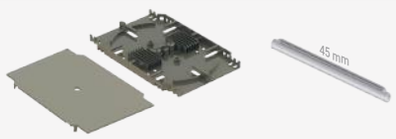
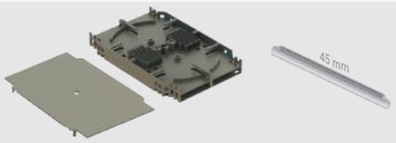
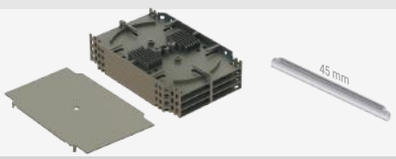




Front Panels Options

Choose Front Panel				
Front Panels	Panel Code		Available Adapters	Order Code
	FP01	12	SC Simplex LC Duplex LSH Simplex	BSFXD-1U-MSV0-FP01-EMPTY
	FP02	12	SC Duplex LC Quad	BSFXD-1U-MSV0-FP02-EMPTY
	FP03	24	SC Simplex LC Duplex LSH Simplex	BSFXD-1U-MSV0-FP03-EMPTY
	FP04	24	SC Duplex LC Quad	BSFXD-1U-MSV0-FP04-EMPTY
	FP05	24	SC Simplex LC Duplex	BSFXD-1U-MSV0-FP05-EMPTY
	FP06	24	FC Simplex ST Simplex	BSFXD-1U-MSV0-FP06-EMPTY

Order Codes for Splice Kits

Picture	Description	Order Code
	**Single Splice Kits**	**Order Code**
	Splice Tray Kit 1: 1x12F Tray + 12 Pcs of Splice Protectors	BS-SPLKIT1-12F-1T-BLK
	Splice Tray Kit 2: 1x24F Tray + 24 Pcs of Splice Protectors	BS-SPLKIT2-24F-1T-BLK
	**Group Splice Kits**	**Order Code**
	Splice Tray Kit 3: 2x12F Tray + 24 Pcs of Splice Protectors	BS-SPLKIT3-24F-2T-BLK
	Splice Tray Kit 4: 2x24F Tray + 48 Pcs of Splice Protectors	BS-SPLKIT4-48F-2T-BLK
	**Group Splice Kits**	**Order Code**
	Splice Tray Kit 5: 4x12F Tray + 48 Pcs of Splice Protectors	BS-SPLKIT5-48F-4T-BLK

Ordering Coding 19” Front Patch Shelves

(sample coding)

BSFXD - 1U - MSV0 - FP02 - SPLKIT2 - A2 - SC - DX - 24

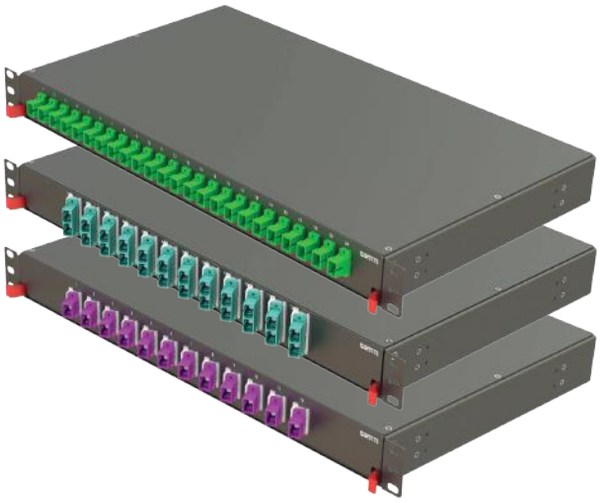
Rail System	Front Panel	Splice Kit	Fiber Type	Connector	Port Options	Fiber Count
Mechanical Sliding: MSV0	Panel-01: FP01 Panel-02: FP02 Panel-03: FP03 Panel-04: FP04 Panel-05: FP05 Panel-06: FP06	Splice Tray Kit 1: SPLKIT1 Splice Tray Kit 2: SPLKIT2 Splice Tray Kit 3: SPLKIT3 Splice Tray Kit 4: SPLKIT4 Splice Tray Kit 5: SPLKIT5	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: NN 12 Fibers: 12 24 Fibers: 24 48 Fibers: 48

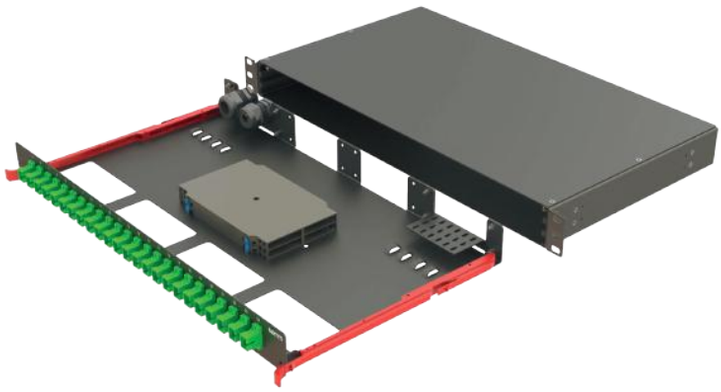
Fixed-Type Bright Series Fiber Optic Patch Panels | Rail Sliding, 1U

Fixed-Type Bright Series Rail-Sliding Patch Panel Systems are designed for termination of up to 96 optical fibers according to the selected front panel structure. These panels can be opened and closed on a plastic rail mechanism.

The panels are also available blank or pre-assembled with a wide variety of connector types up to 96 Fiber capacities.

These panels are used in telecom rooms, main distribution rooms and system rooms to terminate, distribute and manage fiber optic infrastructure in many different applications and needs with a wide variety of fiber optic adapter / connector options such as LC/SC/MTP/E2000/LSH.





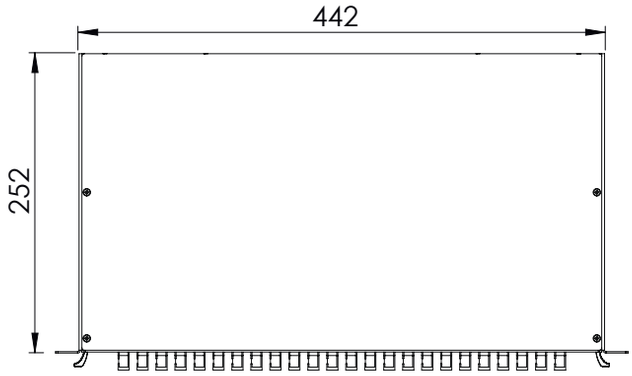
Features and Benefits

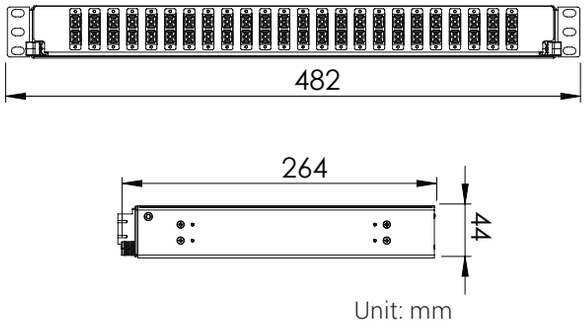
- Different cable entry options
- Special plastic rail and locking mechanism
- Robust and installer-friendly design - providing reduced installation and operating costs
- Different rear cable entry options with PG16 and PG13,5 gland holes
- Screwable desing for adapters on front plates
- Patented adapter clips for angled applications
- Removable shelf design for installation easiness
- Powder-coated RAL 9000 (Black)
- Operating temperature: -20°C / +80°C

Compliance/Certifications

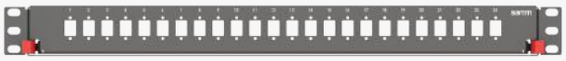
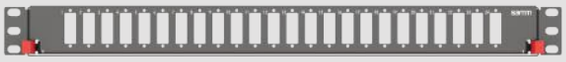
ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
Flammability rating UL94 V-0
ROHS Compliant

Dimensions

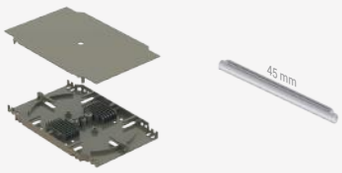
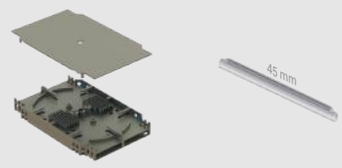
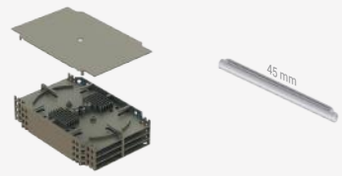




Front Panels Options

Choose Front Panel				
Front Panels	Panel Code		Available Adapters	Order Code
	FP07	24	SC Simplex LC Duplex LSH Simplex	BSFXD-1U-RSV0-FP07-EMPTY
	FP08	24	SC Duplex LC Quad	BSFXD-1U-RSV0-FP08-EMPTY
	FP09	12	SC Simplex Angled LC Duplex Angled LSH Simplex Angled	BSFXD-1U-RSV0-FP09-EMPTY
	FP10	12	SC Duplex Angled LC Quad Angled	BSFXD-1U-RSV0-FP10-EMPTY
	FP11	12	SC Duplex Staright LC Quad Straight	BSFXD-1U-RSV0-FP11-EMPTY

Order Codes for Splice Kits

Picture	Description	Order Code
	**Single Splice Kits**	**Order Code**
	Splice Tray Kit 1: 1x12F Tray + 12 Pcs of Splice Protectors	BS-SPLKIT1-12F-1T-BLK
	Splice Tray Kit 2: 1x24F Tray + 24 Pcs of Splice Protectors	BS-SPLKIT2-24F-1T-BLK
	**Group Splice Kits**	**Order Code**
	Splice Tray Kit 3: 2x12F Tray + 24 Pcs of Splice Protectors	BS-SPLKIT3-24F-2T-BLK
	Splice Tray Kit 4: 2x24F Tray + 48 Pcs of Splice Protectors	BS-SPLKIT4-48F-2T-BLK
	**Group Splice Kits**	**Order Code**
	Splice Tray Kit 5: 4x12F Tray + 48 Pcs of Splice Protectors	BS-SPLKIT5-48F-4T-BLK

Ordering Coding of Bright Series Patch Panel

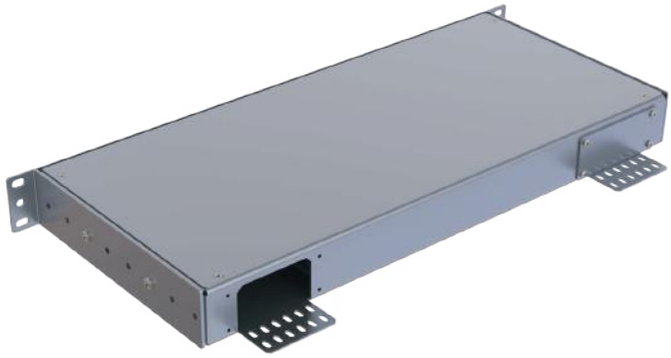
(sample coding)

BSFXD - 1U - RSV0 - FP08 - SPLKIT04 - A2 - SC - DX - 48

Rail System	Front Panel	Splice Kit	Fiber Type	Connector	Port Options	Fiber Count
Rail Sliding: RSV0	Panel-07: FP07 Panel-08: FP08 Panel-09: FP09 Panel-10: FP10 Panel-11: FP11	Splice Tray Kit 1: SPLKIT01 Splice Tray Kit 2: SPLKIT02 Splice Tray Kit 3: SPLKIT03 Splice Tray Kit 4: SPLKIT04 Splice Tray Kit 5: SPLKIT05	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: NN 12 Fibers: 12 24 Fibers: 24 48 Fibers: 48

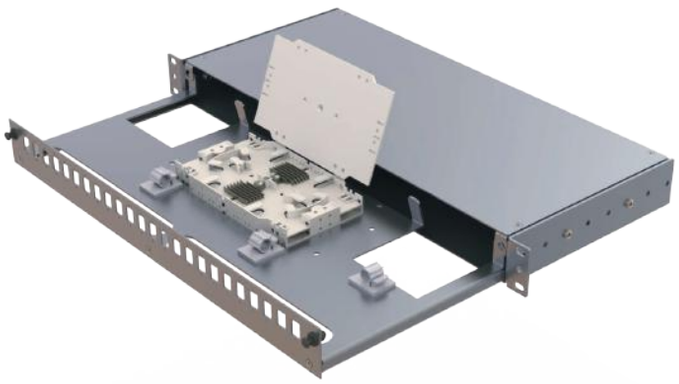
1U ATP Series Aluminium Front Patch Panels

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, pre-installed inner trays, accessories, and different types of pigtails



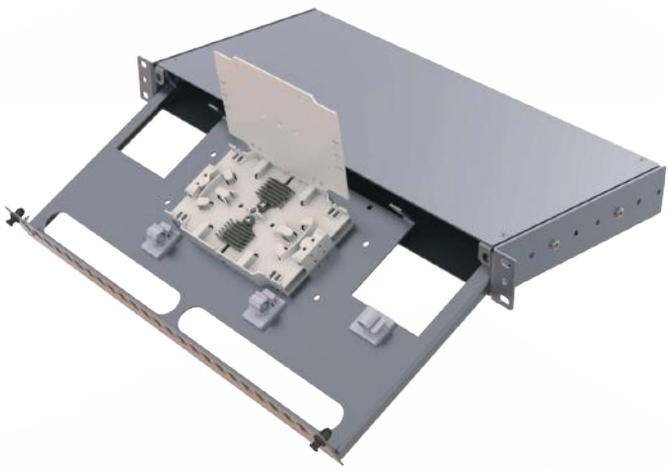
Technical Data

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
Module	24F/Module with fusion splice holders
Dimensions	W:482/439 × D:230/200 × H:44 mm

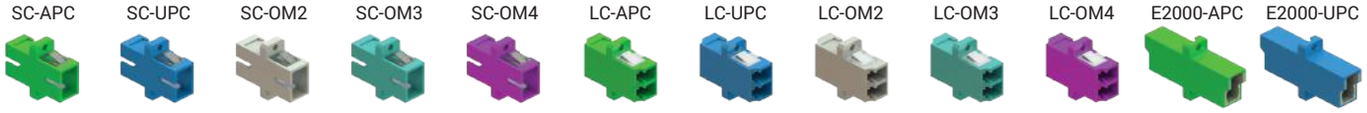


Characteristics

- 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

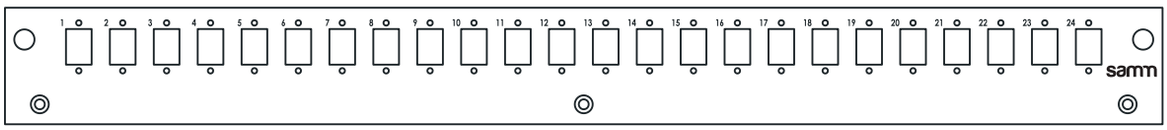


Adapter Types



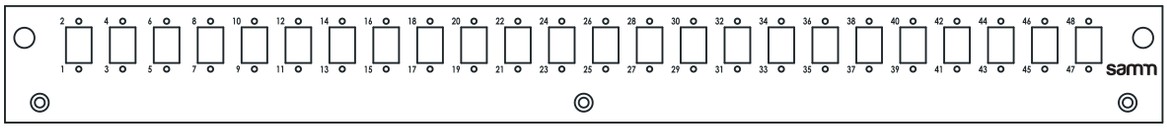
Front Panel Numbering

Panel Type P01 For SC and LSH(E2000)

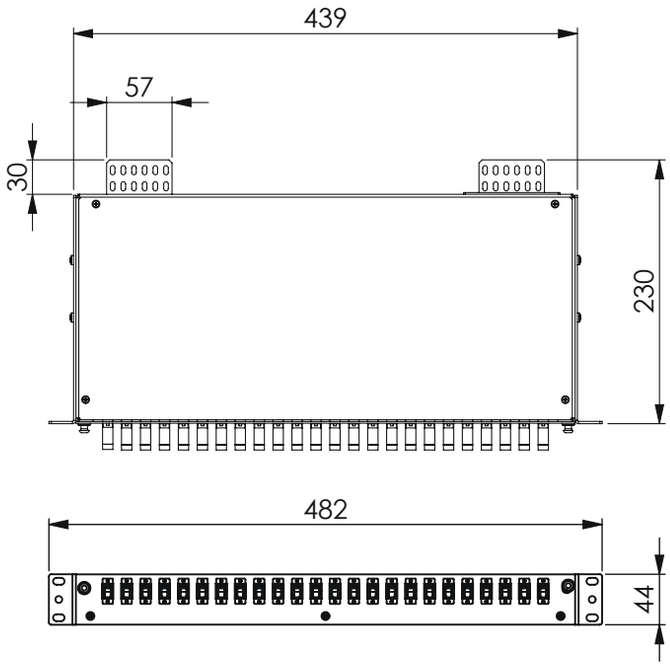


Panel Type P02 For LC-DX

Unit: mm



Dimensions and Drawings



Unit: mm

Panel Contents

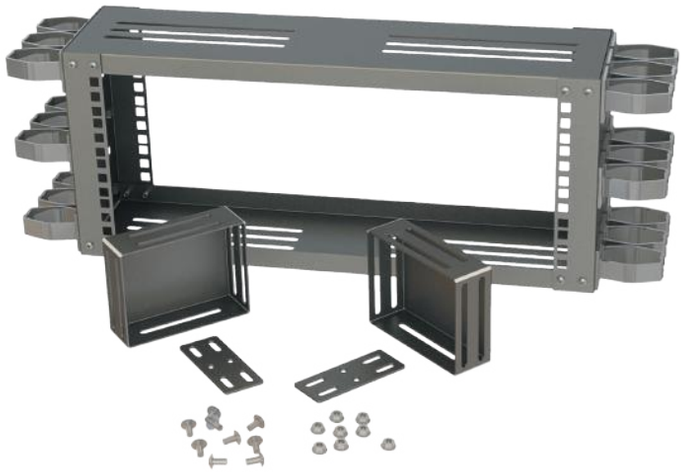
Content Details	Empty Panel Partially Loaded	SC/LSH(E2000) Fully Loaded	LC-DX Fully Loaded
Panel Body Capacity	1 PC	1 PC	1 PC
Sticky Storage and Management Clips	4 PC	4 PC	4 PC
24F Splice Modules	2 PC	2 PC	2 PC
Rack Mounting Set	1 SET	1 SET	1 SET
Cable Tie Set	1 SET	1SET	1 SET
Rear Blind Plate for one 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 data centers.

The overhead rack frame shall provide additional four rack units above a standing rack or cabinet, in order 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.

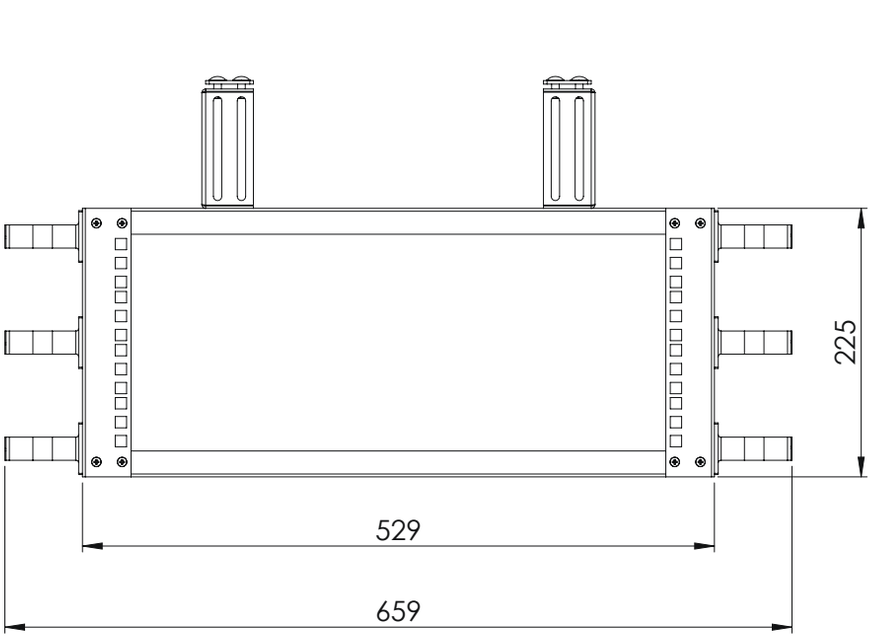
Used with copper patch panels or fiber enclosures, the cable tray rack can increase cabling density, improve cable routing, simplify moves, and provide custom pre-cabled connectivity for rapid deployment of new cabinets, racks, and equipment.

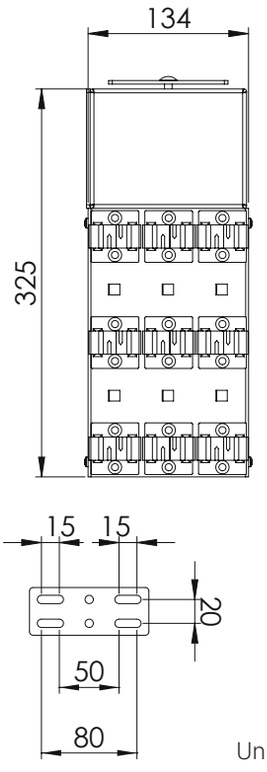


Key Features

- Applicable toladder 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





Unit: mm

1U 19" Pass-Through Panel With Brush Strip (Metal)

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.

1U 19" Pass-Through Panel With Brush Strip (Metal)	
Order Code	MT09618

19" Tool-less Snap-in Blanking Panels

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.

1U 19" Finger Grip Snap-in Blanking Panel (Plastic)	
Order Code	MT09617

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.

1U 19" Latch Snap-in Blanking Panel (Metal)	
Order Code	MT09615

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.

6U 19" Breakable Blanking Panel (Plastic)	
Order Code	MT09616

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.

1U 19" 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.

1U 19" Modular Cable Organizer | With 5 Snap In Rings	
Order Code	MT14351

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November 2021

TURKEY

Company
SAMM Teknoloji iletişim San. ve Tic. A.Ş.

Address
GOSB İhsandede Cd. 800. Sok No: 802,
41400 Gebze-Kocaeli, Turkey

Telephone
+90 444 1 726 / +90 (262) 677 16 80
(Fax) +90 (262) 677 16 81

Email
info@samm.com

GERMANY

Company
SAMM GmbH

Address
Niederstraße 18
40789 Monheim/Deutschland

Telephone
+49 176 814 655 76
+49 176 814 655 84

Email
de@samm.com

Telecom Group

Website
telecom.samm.com

Email
telecom@samm.com

Our Website

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