



Industrial MTP DIN Fiber Module

Compact Industrial MTP Breakout Module for Rapid Fiber Deployments

The RLH Industrial MTP DIN Fiber Module is designed to offer a quick and reliable solution for deploying fiber throughout industrial and commercial networks. These modules come preloaded with a MTP breakout cable and are terminated to ST, SC, or LC adapters.

When ordered with the optional MTP interconnect cable, these modules combine to make a complete fiber extension system, allowing field devices to quickly connect and begin communicating.

Our MTP modules are highly configurable to match your existing network architecture. Available in single-port (12 fiber) or dual-port (24 fiber) configurations.

Internal fiber routing can be factory-configured to support Type A (Straight), Type B (Reversed), or Type AF (Pair-flipped) polarity.

For custom pinouts or specific mapping requirements, please contact our engineering support team.

These modules are designed and assembled in the USA and are readily customizable to specialized applications when desired.

Key Features

- Available in single-port (12 fiber) or dual-port (24 fiber) configurations
- ST, SC, and LC modules available
- Supports singlemode and multimode fiber
- Compatible with both MTP & MPO adapters
- Optional MTP cable available for quick installation
- Compact footprint
- Factory tested and polished for fast reliable installation
- Designed and assembled in USA



12 Fiber LC - DIN Mounted MTP Module



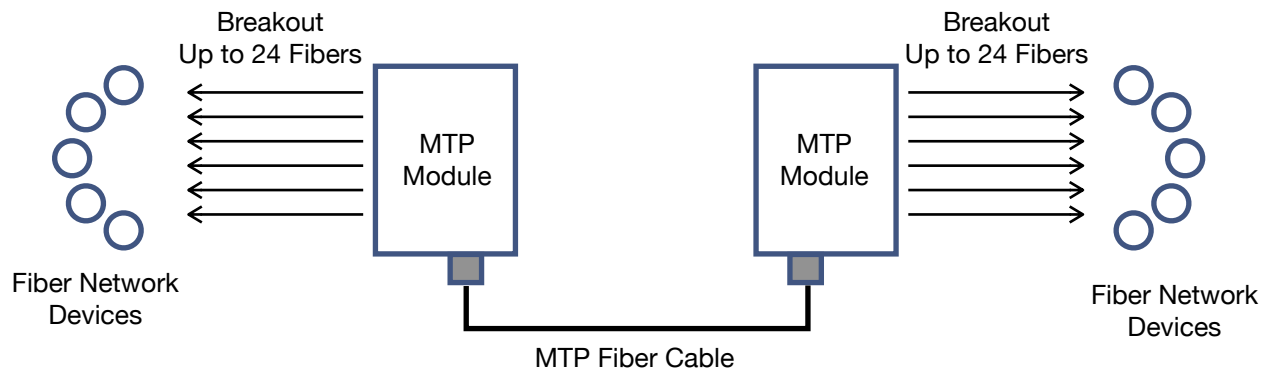
12 Fiber ST - Wall Mounted MTP Module



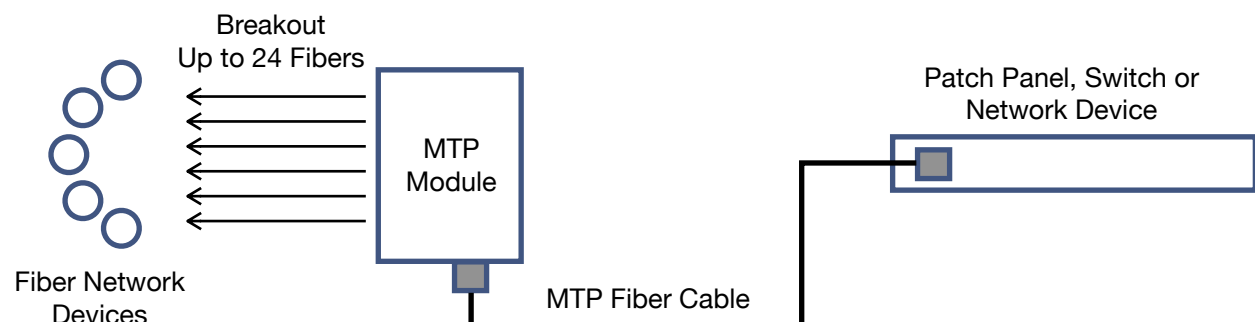
Application

In Pairs at Each End

With 12 fibers, the MTP fiber cable will have a single connector. When using 12 to 24 fibers, the MTP Fiber Module will use a pair of connectors.



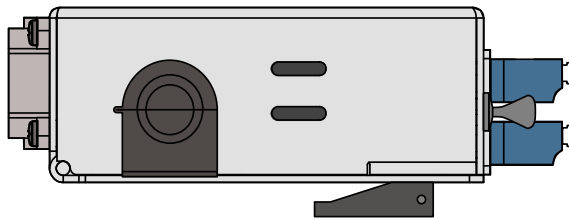
To Extend the Network



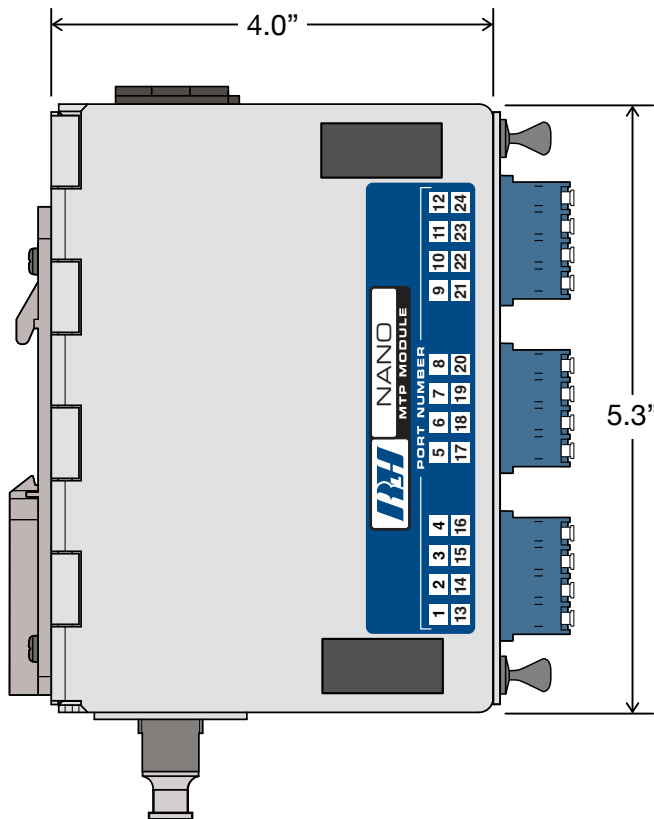
Dimensions

The diagram below details the dimensions of the Industrial MTP Fiber Module.

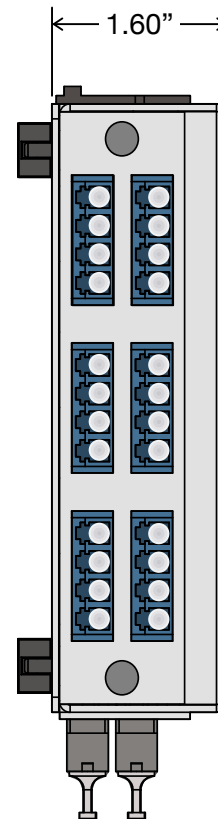
Note: Measurements do not include fiber adapter plate, rubber gaskets, door latches, DIN Rail Clip, or MTP port dimensions.



Top View



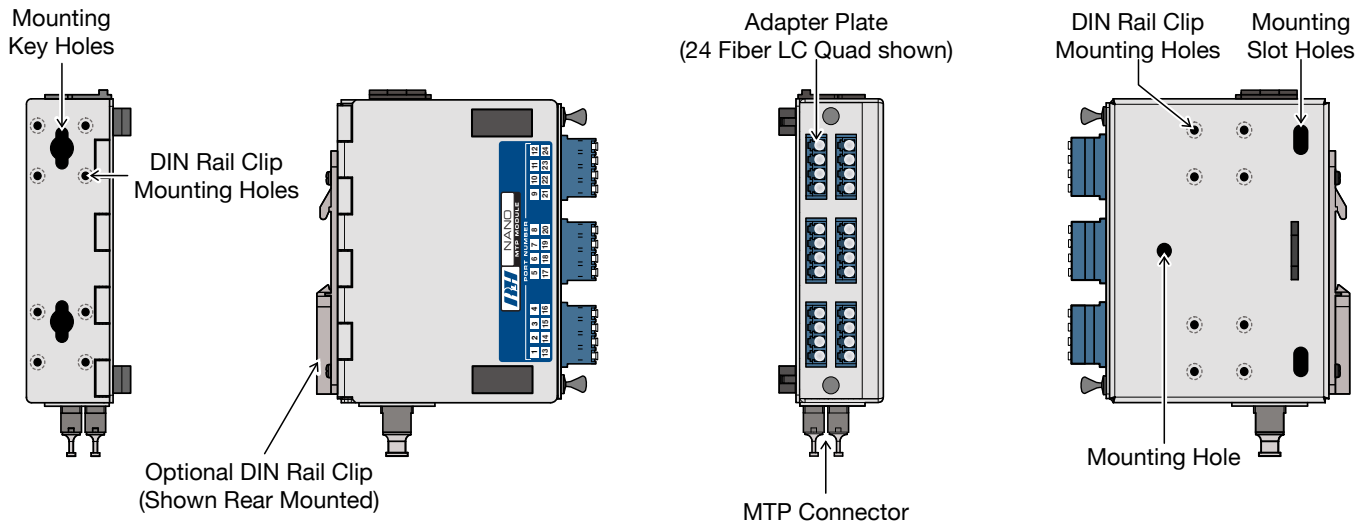
Side View



Front View

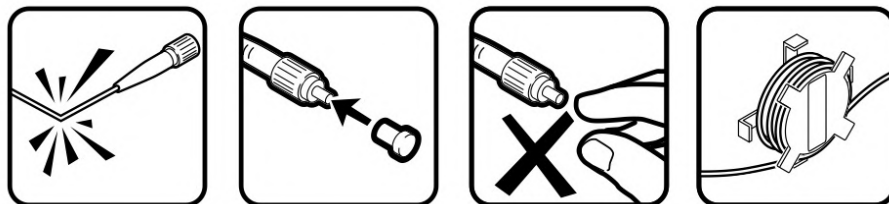
Components

The diagram below details the various components of the different versions of the Industrial MTP Fiber Module.



Installation

Guidelines for handling terminated fiber cable



- Do not bend fiber cable sharply. Use gradual and smooth bends to avoid damaging glass fiber
- Keep dust caps on fiber optic connectors at all times when disconnected
- Do not remove dust caps from unused fiber
- Keep fiber ends and fiber connectors clean and free from dust, dirt and debris, contamination will cause signal loss
- Do not touch fiber ends
- Store excess fiber on fiber spools at site

Prior to installation:

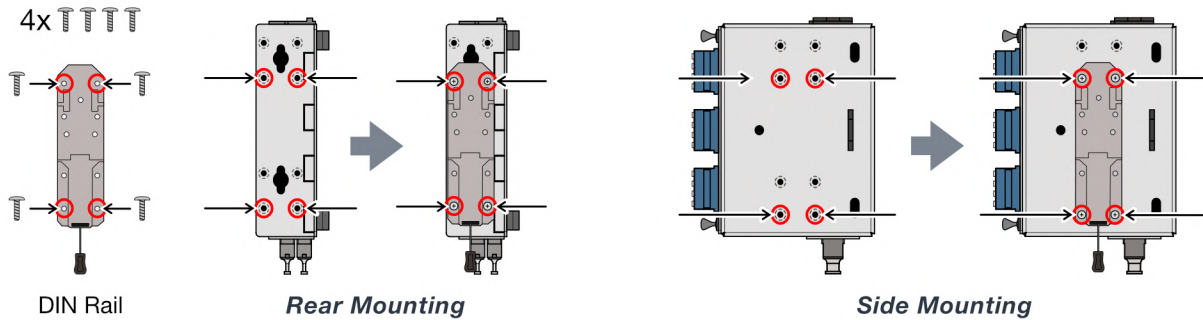
- Check for shipping damage
- Check the contents to ensure correct model and fiber type
- Have a clean, dry installation environment ready
- Ensure that the fiber type at the site matches the system type

If damage is discovered, file a claim immediately with the carrier, then contact RLH customer service.

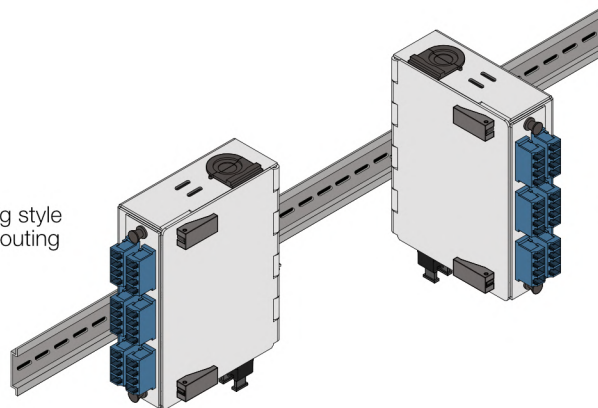
Before mounting, pre-position the patch panel to plan out cable routings and check for any potential problems with the location. The patch panel may be DIN rail mounted, or wall/panel mounted in any orientation.

DIN Rail Mounting

The patch panel may be configured for DIN rail mounting facing right or left, using a rear or side DIN rail installation. Attach the DIN Clip using the screws provided onto the lower set of holes for your desired orientation. This will center the patch panel when mounted on the DIN rail.



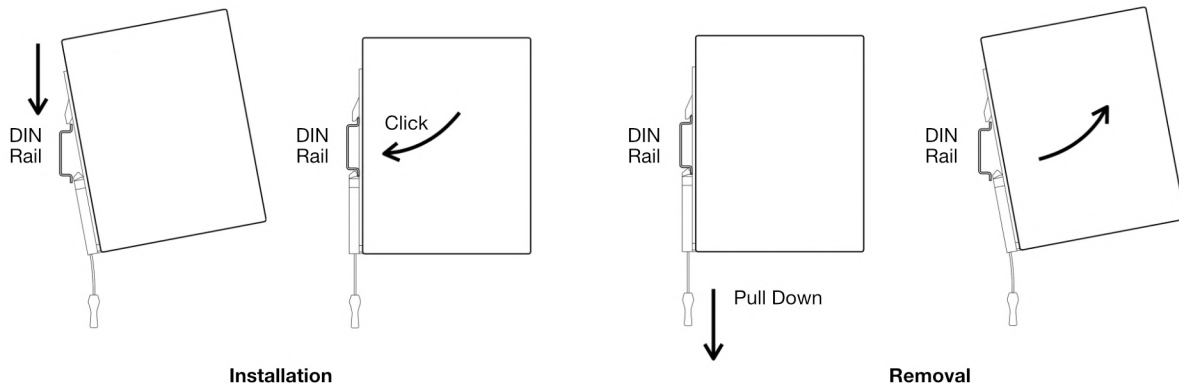
Low profile mounting style
for side fiber cable routing



Front facing for easy access
to front fiber cable connectors

Installation Examples

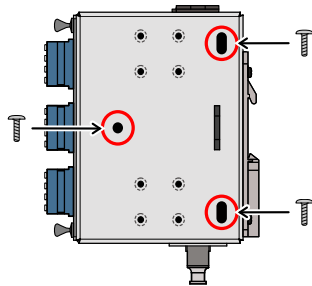
Hook the DIN clip on the top flange of the DIN rail and rotate to the locked position to install. To remove, pull down on the pull string and rotate off of the DIN rail.



Wall Mounting

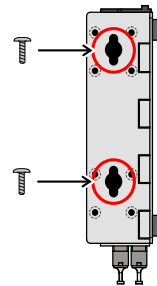
Once the position is determined, mark out the mounting points and use the included 3/4" screws to mount the patch panel. For all other mounting applications, use appropriate mounting hardware as required.

3x

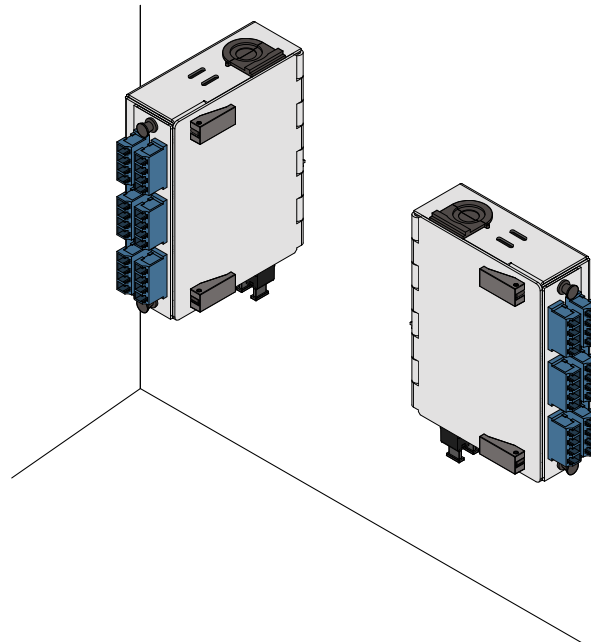


Side Wall Mounting

2x



Rear Wall Mounting



Installation Examples

General Specifications

Mounting Style	Wall and DIN rail (DIN rail kit ordered separately or may be ordered preinstalled)
MTP Interface	MTP Male
Fiber Adapter Types	LC Duplex, LC Quad, SC Duplex, ST Simplex
Fiber Modes	Singlemode, Multimode (OM1), Multimode (OM3), Multimode (OM4)
Fiber Count	12 to 24 Fibers
Fiber Polarity	Type A (Straight), Type B (Reversed), or Type AF (Pair-flipped)
Environment	Suitable for use indoors or within a weatherproof enclosure
Construction	Powder-coated Steel, hinged door and plunger latches
Dimensions	4.0" (W) x 1.6" (D) x 5.3" (H), (102mm x 41mm x 135mm)* <i>*Not including latches or MTP Adapter</i>
Compliance	UL Listed, RoHS

Configuration Information

Interface	Adapter	Fiber Mode	Fibers	Compatible MTP Interconnect Cable*
MTP Male	LC Duplex	Multimode (OM1)	12	RLH-12CRMM2-MLML-B12-F-1
MTP Male	LC Duplex	Multimode (OM3)	12	RLH-12CRMX2-MLML-B12-F-1
MTP Male	LC Duplex	Multimode (OM4)	12	RLH-12CRMC2-MLML-B12-F-1
MTP Male	LC Duplex	Singlemode	12	RLH-12CRSM2-MSMS-B12-F-1
MTP Male	SC Duplex	Multimode (OM1)	12	RLH-12CRMM2-MLML-B12-F-1
MTP Male	SC Duplex	Multimode (OM3)	12	RLH-12CRMX2-MLML-B12-F-1
MTP Male	SC Duplex	Multimode (OM4)	12	RLH-12CRMC2-MLML-B12-F-1
MTP Male	SC Duplex	Singlemode	12	RLH-12CRSM2-MSMS-B12-F-1
MTP Male	ST Simplex	Multimode (OM1)	12	RLH-12CRMM2-MLML-B12-F-1
MTP Male	ST Simplex	Singlemode	12	RLH-12CRSM2-MSMS-B12-F-1
2 x MTP Male	LC/UPC Quad (Blue)	Singlemode (OS2)	24	RLH-24CRSM3-MSMS-B18-F-1
2 x MTP Male	LC/APC Quad (Green)	Singlemode (OS2)	24	RLH-24CRSM3-MSMS-B18-F-1
2 x MTP Male	LC/PC Quad (Beige)	Multimode (OM1) 62.5/125	24	RLH-24CRMM3-MLML-B18-F-1
2 x MTP Male	LC/PC Quad	Singlemode (OM3) 50/125	24	RLH-24CRMX3-MLML-B18-F-1
2 x MTP Male	LC/PC Quad	Multimode (OM4) 50/125	24	RLH-24CRMC3-MLML-B18-F-1

- *MTP Interconnect Cables are ordered by the foot



Ordering Information

Description	Part Number
Nano Industrial MTP/MPO DIN Fiber Module, Multimode (OM1), 12-Fibers, LC Duplex	MTP-NANO-LC-LDMM
Nano Industrial MTP/MPO DIN Fiber Module, Multimode (OM3), 12-Fibers, LC Duplex	MTP-NANO-LC-LDMX
Nano Industrial MTP/MPO DIN Fiber Module, Multimode (OM4), 12-Fibers, LC Duplex	MTP-NANO-LC-LDMC
Nano Industrial MTP/MPO DIN Fiber Module, Singlemode, 12-Fibers, LC Duplex	MTP-NANO-LC-LDSM
Nano Industrial MTP/MPO DIN Fiber Module, Multimode (OM1), 12-Fibers, SC Duplex	MTP-NANO-SC-LDMM
Nano Industrial MTP/MPO DIN Fiber Module, Multimode (OM3), 12-Fibers, SC Duplex	MTP-NANO-SC-LDMX
Nano Industrial MTP/MPO DIN Fiber Module, Multimode (OM4), 12-Fibers, SC Duplex	MTP-NANO-SC-LDMC
Nano Industrial MTP/MPO DIN Fiber Module, Singlemode, 12-Fibers, SC Duplex	MTP-NANO-SC-LDSM
Nano Industrial MTP/MPO DIN Fiber Module, Multimode (OM1), 12-Fibers, ST Simplex	MTP-NANO-ST-LSMM
Nano Industrial MTP/MPO DIN Fiber Module, Singlemode, 12-Fibers ST, Simplex	MTP-NANO-ST-LSSM
Nano Industrial MTP DIN Rail Fiber Module, Singlemode, 24-Fibers, LC/UPC Quad	MTP-NANO-LC-LQSM-2M
Nano Industrial MTP DIN Rail Fiber Module, Singlemode, 24-Fibers, LC/APC Quad	MTP-NANO-LA-LQSM-2M
Nano Industrial MTP DIN Rail Fiber Module, Multimode OM1 (62.5/125), 24-Fibers, LC Quad	MTP-NANO-LC-LQMM-2M
Nano Industrial MTP DIN Rail Fiber Module, Multimode OM3 (50/125), 24-Fibers, LC Quad	MTP-NANO-LC-LQMX-2M
Nano Industrial MTP DIN Rail Fiber Module, Multimode OM4 (50/125), 24-Fibers, LC Quad	MTP-NANO-LC-LQMC-2M

- Add **-B** to the end of the part number for Type B (Reversed) polarity
- Add **-AF** to the end of the part number for Type AF (Pair-flipped) polarity

Contact

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