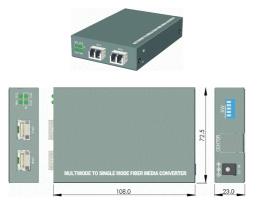


M720D Multimode to Single Mode Fiber Optic Media Converter Installation Guide

#### General

The M720D is a mode to mode optical fiber converter series which provide the following conversions:

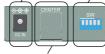
- 1000BASE-SX MM fiber to/from 1000BASE-LX SM fiber
- 100BASE-FX MM fiber to/from 100BASE-FX SM fiber



# Specifications

# LED Indicators SFP-B Fiber Port DC Jack SW





SFP-A Fiber Port

Center Connector with cover

## Fiber Optic Interfaces (SFP-A & SFP-B Ports)

#### Interface Operating Voltages Power consumption

DC Jack (-D6.3mm/+D2.0mm) DC input +5V ~ +12V max 2W @+7.5VDC input

#### SW (Configuration Switches)

SW1
-----

SW2 ~ SW5

ON - Gigabit Ethernet MM to SM OFF - Fast Ethernet MM to SM Reserved

## Features

- Complies with IEEE 802.3z 1000Base-SX/LX and IEEE 802.3u 100Base-FX standard
- Provides media conversion between single mode and multimode optical fiber media types
- Supports both 1000Mbps Gigabit Ethernet fiber and 100Mbps Fast Ethernet fiber applications
- Provides two SFP slots to support standard SFP fiber transceivers
- Transparent conversion to any type of packet frame
- No packet length limitation
- Provides LEDs for easy network monitoring
- MCC-16 chassis installation : support installation in the MCC-16 series chassis with benefits of central software management, central power and redundant power backup.
- Diversified mounting support : desktop mounting, wall mounting, optional Din-Rail support
- Support wide range of single mode fiber options: short reach up to long reach, Bi-directional single fiber, and CWDM
- Low power consumption

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# MechanicalDimension (base)4.25 x 2.85 x 0.90 inchesHousingEnclosed metal with no fanWeight0.45 lb.

#### LED Indicators

PWR	ON	Power on
	OFF	Power off
GE/FE	ON	GE MM to GE SM
	OFF	FE MM to FE SM
SFP-A OL	ON	SFP-A port optical signal detected
	OFF	No optical signal
SFP-B OL	ON	SFP-B port optical signal detected
	OFF	No optical signal

#### **Environmental**

Operating Temperature  $-5 \sim 55^{\circ}$ C Storage Temperature  $-20 \sim 85^{\circ}$ C Relative Humidity  $10\% \sim 70\%$ 

#### **Design Compliance**

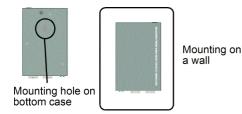
FCC Part 15 Class B, CE / CISPR 22 Class B, IEC60950 Safety

## **Desktop Mounting**

The device can be mounted on a desktop or shelf. Make sure that there is proper heat dissipation from and adequate ventilation around the device. Do not place heavy objects on the device.

## Wall Mounting

The device provides a mounting hole on the bottom case as shown in the figure. Use the hole for a wall mounting.



# **Applying Power**

Before you begin the installation, check the AC voltage of your area. The AC power adapter which is used to supply the DC power for the device should have the AC voltage matching the commercial power voltage in your area. The DC power input of the converter is: DC IN 0.24A min. @ 7.5V

## Installing SFP Fiber Transceiver

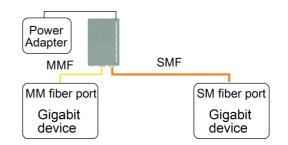
To install an fiber transceiver into an SFP slot, the steps are:

- 1. Turn off the power to the device unit.
- Insert the SFP fiber transceiver into the slot. Normally, a bail is provided for every SFP transceiver. Hold the bail and make insertion.
- 3. Until the SFP transceiver is seated securely in the slot, place the bail in lock position.

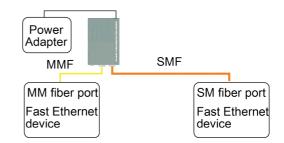
Note that SFP-A is reserved for MM transceiver and SFP-B is reserved for Single mode transceiver.

# **Typical Applications**

Gigabit Ethernet 1000Mbps MMF to 1000Mbps SMF







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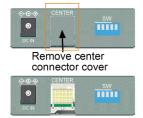
## **DIN-Rail Mounting**

For a Din-Rail chassis, the media converter can support mounting on a Din-Rail. An optional Din-Rail bracket, can be purchased separately. Consult VERSITRON for details. The following figures show an example after bracket installation:



## **Center Chassis Installation**

The media converter can also be installed in MCC-16 series chassis. The chassis provides the power supply to the converter also with optional power redundancy. Up to 16 units can be installed in one chassis. Unscrew and remove the cover of the chassis connector before inserting the converter into the chassis. Refer to the operation manual of MCC-16 chassis for more information.





#### FCC NOTICE

This device complies with Part 15 Class B the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including the interference that may cause undesired operation.

#### CE NOTICE

Marking by the symbol **(** indicates compliance of this equipment to the EMC directive of the European Community. Such marking is indicative that this equipment meets or exceeds the following technical standards:

EMC Class B	
EN61000-6-3	IEC61000-6-1
EN55022	CISPR22
EN61000-3-2	IEC61000-3-2
EN61000-3-3	IEC61000-3-3
EN61000-6-1	IEC61000-6-1
EN55024	CISPR24
EN61000-4-2	IEC 61000-4-2
EN61000-4-3	IEC 61000-4-3
EN61000-4-4	IEC 61000-4-4
EN61000-4-5	IEC 61000-4-5
EN61000-4-6	IEC 61000-4-6
EN61000-4-8	IEC 61000-4-8
EN61000-4-11	IEC 61000-4-11

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