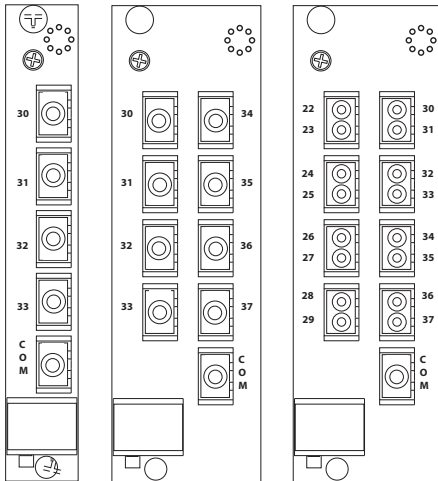


# MDM-7001D Series

DWDM Multiplexer/Demultiplexer



The MDM-7001D DWDM MUX/DEMUX is most typically used when either leased fiber coast is an issue or when the existing fiber plant has reached its maximum capacity. As many as 16 DWDM wavelengths are supported for these applications from 1553 nm - 1547 nm. The MDM-7001D/4 is a 1-slot Optiva plug-in module, while the MDM-7001D/8 and MDM-7001D/16 are 2-slot Optiva plug-in modules.

Insert cards are supported in both of Emcore's 1U or 3U 19" rack mount enclosures and 1 or 2 slot desk top enclosures.

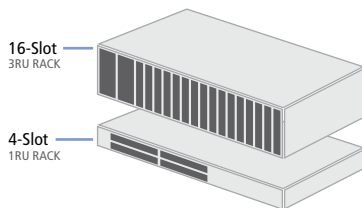
## Features

- Combines up to 16 different DWDM wave lengths onto one singlemode fiber
- Optiva insert card form factor
- Minimization of optical fiber use for Add/Drop applications
- Low insertion loss

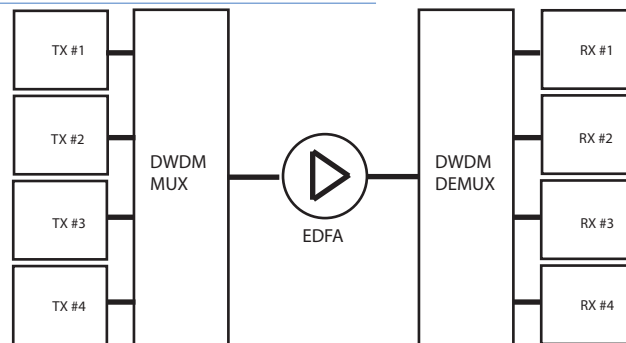
## Applications

- Nodes in dual-redundant fiber rings
- Test and measurement
- Security
- Satellite Communications

## Enclosure Options



## Functional Diagram



## Specifications

Specifications	Values
Wavelengths	1547 nm - 1559 nm
Insertion Loss	
MDM-7001D/4	<3.0 dB
MDM-7001D/8	<4.5 dB
MDM-7001D/16	<6.0 dB
Optical Return Loss	50 dB
Port Isolation	30 dB (Adjacent Channel) 40 dB (Non-Adjacent Channel)
Max Power Handling	21.7 dBm
PDL / WDL	

## General

Specifications	Values
Dimensions (Insert Card)	
MDM-7001D/4	6.3"D x 0.8"W x 4.0"H
MDM-7001D/8 & /16	6.3"D x 1.6"W x 4.0"H
Weight	
MDM-7001D/4	6 oz.
MDM-7001D/8	8 oz.
MDM-7001D/16	12 oz.
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	0% to 95% non-condensing

## Models

Model	Description
MDM-7001D/4-M-SA	MUX, DWDM, 4 channel, 30-33 SM, SC/APC
MDM-7001D/4-D-SA	DEMUX, DWDM, 4 channel, 30-33, SM, SC/APC
MDM-7001D/8-M-SA	MUX, DWDM, 8 channel, 30 - 37, SM, SC-APC
MDM-7001D/8-D-SA	DEMUX, DWDM, 8 channel, 30 - 37, SM, SC-APC
MDM-7001D/16-M-LC	MUX, DWDM, 16 channel, 22 - 37, SM, LC
MDM-7001D/16-D-LC	DEMUX, DWDM, 16 channel, 22 - 37, SM, LC

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