



Features

- Supports 1270-1610 nm CWDM wavelengths
- Optiva insert card form factor
- Minimization of optical fiber for Add/Drop applications
- Low insertion loss

Applications

- Nodes in dual-redundant fiber rings
- Test and measurement
- CCTV
- Security
- Redundant ring topologies

CWDM Multiplexing over One Fiber

The MDM-7016 series CWDM optical MUX/DEMUX enables multiplexing or demultiplexing up to 16 wavelengths onto or from a common single mode optical fiber. Wavelengths range from 1270 nm to 1610 nm. MDM-7016 has the form factor of a 2-slot Optiva plug-in module insert card.



The MDM-7016 CWDM MUX/DEMUX is most typically used in rings, or other network topologies, in which particular directed video, audio, and data signals are sourced and terminated at nodes on a network that are characterized by a particular optical wavelength. As 16 CWDM wavelengths are supported, up to 16 nodes may be addressed on such a CWDM ring. The MDM-7016 would typically be used at a central node or control center that is required to add up to 16 and/or remove up to 16 wavelengths to a single fiber. Baseband digital bandwidths of up to 3.125 Gbps per wavelength are supported. As a result, up to 25 Gbps may be transported on a CWDM network, with any particular node being capable of adding and/or dropping 3.125 Gbps. As a result of Optiva's Daisy-Chain technology. Video, audio, and data signals from multiple Optiva insert cards may be combined onto a single wavelength and routed to any particular node.

System Design

Optiva® insert cards support both 19" rack-mount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosure (Model: OT-CC-16-100) can support up to 16 insert cards. It also supports dual-redundant, hot-swappable power supplies (Model: OT-CC-16-100-RPS) utilizing two PS-100 power supplies or two PS-200 power supplies (Model: OT-CC-16-200-RPS). Also available in the rackmount form factor is the four-slot (Model: OT-CC-4-1U) which houses four insert cards in 1RU of rack space. The compact one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures both use an external power supply (Model: PS-9012).

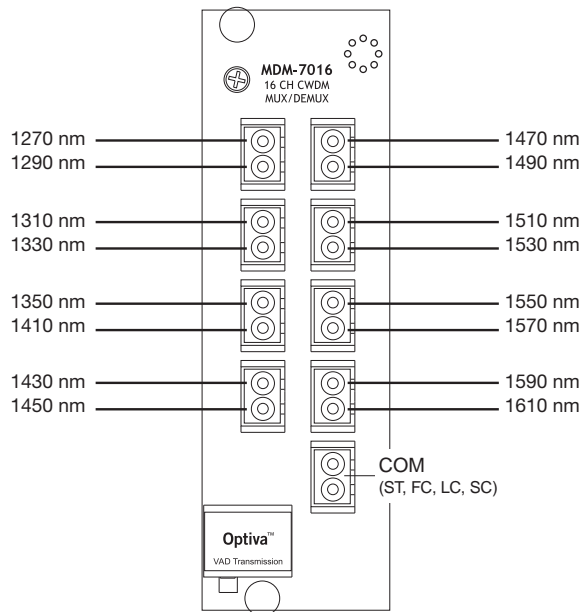
optiva PLATFORM

DATASHEET FIBER OPTICS

Models

Model	Wavelength
MDM-7016-CWDM-LC	Optiva Platform, CWDM 1270 - 1610 nm Multiplexer / De-Multiplexer

Connection Diagram



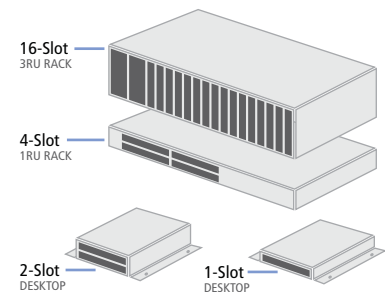
Specifications

Specifications	Values
CWDM Wavelengths	1270 nm - 1610 nm
Insertion Loss	< 3.0 dB
Directivity (CWDM)	50 dB
Port Isolation	30 dB (Adjacent Channel) 40 dB (Non-Adjacent Channel)

General

Specifications	Values
Dimensions (Insert Card)	6.3"D x 0.8"W x 4.0"H
Weight	11 oz.
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	0% to 95% (non-condensing)
Warranty	3-year

Enclosure Options



Compliance

