MDA-7000

CWDM Add / Drop Multiplexer

DATASHEET FIBER OPTICS

Features

- Available in sixteen different CWDM wavelength versions
- Optiva insert card form factor
- Minimization of optical fiber for Add/Drop applications
- Low insertion loss

Applications

- Add or Drop Nodes in fiber rings

CWDM Add/Drop Multiplexer

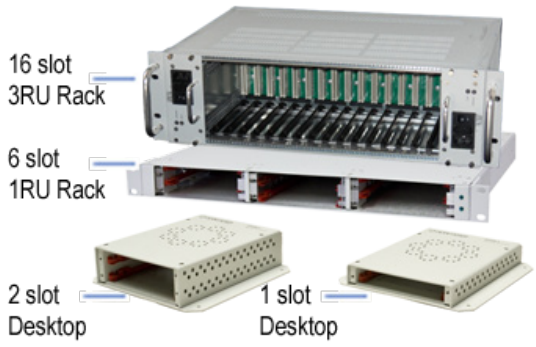
The Optiva MDA-7000 CWDM optical add/drop multiplexer enables the adding and/or dropping of a single CWDM wavelength onto a common single mode optical fiber. Up to 16 CWDM wavelengths in the range of 1270 nm to 1610 nm can be individually addressed.

The MDA-7000 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. MDA-7000 is wavelength specific and supports a baseband digital bandwidth of up to 3.125 Gbps per wavelength.

System Design

MDA-7000 is a card-based form factor add / drop multiplexer designed for use in Optiva optiva PLATFORM enclosures. It utilizes one insert card slot in 19" rackmount and compact tabletop or wall-mountable enclosures. The 3RU 19" rackmount enclosures (Models: OT-CC-16 & OT-CC-16F) can support up to 16 insert cards as well as dual-redundant, hot-swappable power supplies utilizing two 100 watt or two 200 watt power supplies. Also available in the rackmount form factor is our 1RU enclosure (Model: OT-CC-6-1U) which can accomodate six insert cards and utilizes two 60 watt power supplies. For desktop or wall mounting applications there are one-slot (Model: OT-DTCR-1) and two-slot (Model: OT-DTCR-2) enclosures. Both use an external wall mount power supply.

Enclosure Options



U.S. Patent #'s 7720385 & 8064773

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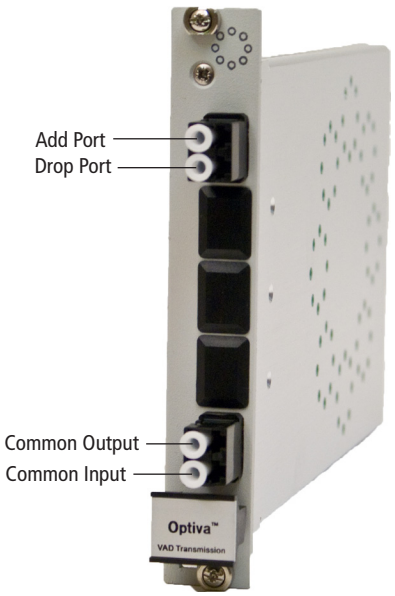
Models

Model	Wavelength	Optical Connector
MDA-7000-L4A-LC	1270 nm	LC
MDA-7000-L4B-LC	1290 nm	LC
MDA-7000-L4C-LC	1310 nm	LC
MDA-7000-L4D-LC	1330 nm	LC
MDA-7000-L4E-LC	1350 nm	LC
MDA-7000-L4F-LC	1370 nm	LC
MDA-7000-L4G-LC	1390 nm	LC
MDA-7000-L4H-LC	1410 nm	LC
MDA-7000-L4I-LC	1430 nm	LC
MDA-7000-L4J-LC	1450 nm	LC
MDA-7000-L4K-LC	1470 nm	LC
MDA-7000-L4L-LC	1490 nm	LC
MDA-7000-L4M-LC	1510 nm	LC
MDA-7000-L4N-LC	1530 nm	LC
MDA-7000-L4O-LC	1550 nm	LC
MDA-7000-L4P-LC	1570 nm	LC
MDA-7000-L4Q-LC	1590 nm	LC
MDA-7000-L4R-LC	1610 nm	LC

- Standard connector type is UPC

Connection Diagram



Specifications

Specifications	Values
CWDM Wavelengths	1270 nm - 1610 nm
Common Port Insertion Loss	< 2.0 dB
Add/Drop Port Insertion Loss	< 2.0 dB
Directivity (CWDM)	50 dB
Common Port Isolation	25 dB
Add/Drop Port Isolation	Adjacent Channel 30 dB; Non-Adjacent Channel 40 dB

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 +55°C
Storage Temperature	-40°C to +85°C
Humidity	0 to 95% non-condensing
Power Consumption	N/A (passive device)
System Latency	N/A
Warranty	3 Year

Compliance

FC CE MADE IN USA RoHS COMPLIANT

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