

WDM and CWDM Multiplexers

The MDM-7000 series combines different multiplexing techniques to provide an overall cost efficient and upgradeable customized multi-channel, single-fiber solution. Each MDM-7000 product is ideal for the transmission of multiple channels of Video with Audio and/or Data, where only a minimum number of fiber optic cable is available. For example, up to 128 channels of Uncompressed SDI video can be transported using 8 "OTS-8SD" units and one MDM-7016 unit.

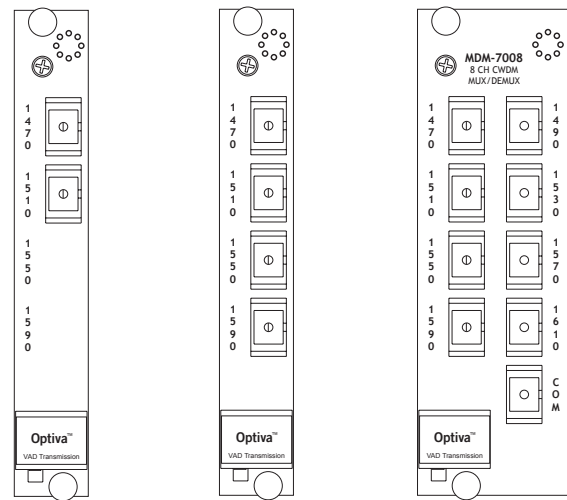
The multiplexer module can combine up to sixteen wavelengths over one singlemode fiber, and the demultiplexer module outputs the wavelengths on the receiving end. The CWDM modules operate independently of protocol and data rate, and are designed to work with uncooled lasers with wavelengths spaced 20nm apart.

System Design

All units come an Insert Card version (except the MDM-7016). The cards can be inserted into our 16 slot, 19" rackmountable card cage (CC-16 Series), or one of our smaller Desk-Top Card Racks (OT-DTCR Series).

Versions Available

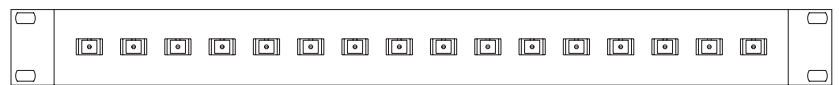
MDM-7002	2 Banks	IC (1 slot)
MDM-7004	4 Banks	IC (1 slot)
MDM-7008	8 Banks	IC (2 slot)
MDM-7016	16 Banks	19" IRU



MDM-7002
2-Port CWDM
Mux/Demux

MDM-7004
4-Port CWDM
Mux/Demux

MDM-7008
8-Port CWDM
Mux/Demux



MDM-7016
16-Port CWDM
Mux/Demux
(Select ST, FC, SC, or LC optical connectors)

Features

- CWDM operation over one fiber
- Multiplexers and demultiplexers (up to 16 separate wavelengths over one single mode fiber with 20 nm separation)
- Designed for use with uncooled lasers
- Compatible with Opticomm Optiva™ Systems.
- Enables Modular System Configuration
- No EMI or RFI and no ground loops
- Rack Mount or Stand Alone

Passive Multiplexing Solutions

CWDM

Dimensions & Weight	Insert card (IC): 6.3" L x 0.8" W x 4.0" H; 10 oz
Channel center wavelengths	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, and 1610 nm
Wavelength separation	20 nm
Loss with mux/demux	< 3 dB
Optical return loss	> 50dB
Uniformity with mux/demux	< 1.2 dB
Total input power	500 mW max
Polarization dependent loss	< 0.1 dB
Wavelength thermal stability	0.005 nm/°C
Jumper fiber length	1 Ft.
Operating temperature	-20°C to +70°C
Storage temperature	-40°C to +85°C

WDM

Dimensions & Weight	Insert card (IC): 6.3" L x 0.8" W x 4.0" H; 10 oz
Channel center wavelengths	865, 1310 & 1550nm
Loss with mux/demux	< 3 dB
Optical return loss	> 50dB
Uniformity with mux/demux	< 1.2 dB
Total input power	500 mW max
Polarization dependent loss	< 0.1 dB
Wavelength thermal stability	0.005 nm/°C
Jumper fiber length	1 Ft.
Operating temperature	-20°C to +70°C
Storage temperature	-40°C to +85°C

General

Humidity	0 to 95% non-condensing
Operating voltage	12 V _{DC} (200 mA) or 24 V _{AC} (300mA) or 110/220 V _{AC}

Remote Monitoring

Compatible with OptivaView™
SNMP Management Suite



FCC PART 15
COMPLIANT

Emissions: FCC Part 15, ICES-003,
AS/NZS, 3548, EN55022
Immunity: ENVS0204,
EN61000-4-2,3,4,5,6,11
Safety: UL1950, CAN/CSA 22.2,
NO.950-95

MADE IN THE USA