

CWDM OADM Optical Add | Drop Multiplexer

Description

One of the most important parts of a flexible CWDM system is the CWDM Optical Add | Drop (OADM). CWDM OADM is designed to add/drop multiple CWDM channels onto one or two fibers. CWDM Optical Add Drop Multiplexers are the ideal solution for increasing bandwidth demands on enterprise and metro access networks.

Montclair CWDM Optical Add Drop Multiplexers (OADM) are available in 1RU 19" Rack mount, LGX module, and Tray-mount ruggedized cassettes. CWDM OADMs can be configured to fit your specific network application: one or two fibers, redundant networks, ring, or linear network design.



CWDM OADM Optical Add | Drop Multiplexer

Features

- Optical drop | pass and drop | insert of single CWDM channel for point-to-point, ring | bus configuration
- Entirely passive device, no power supply needed
- Low-cost transceivers applicable, existing equipment can still be used
- Fully transparent to all data rates and protocols
- Up to 10 Gbit/s per channel

Applications

- CWDM Networks
- Telecommunications
- Line Monitoring
- Cellular Application
- Optical Amplifier
- Access Networks

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Specifications

Parameters				
Channel Wavelength	ITU-T CWDM Grid			
Channel Spacing	20nm			
Number of Channels	1	2	4	8
Bandwidth @ 0.5dB (nm)	>14	>14	>14	>14
Passband (nm)	± 7.5 / ±6.5			
Passband flatness (dB)	0.4	0.4	0.4	0.4
IL(In @ Drop @ drop) (dB)	0.6	0.9	2.0	3.2
IL(Add @ Out @ add) (dB)	0.6	N/A	2.0	3.2
IL(In @ Out @ other) (dB)	NA	1.2	2.5	4.8
Adjacent isolation (dB)	>30			
Non-adjacent isolation (dB)	>40			
Isolation(In @ Out @ drop) (dB)	>25			
Wavelength thermal stability (nm/ °C)	< 0.002	< 0.002	< 0.002	< 0.002
Insertion Loss Thermal Stability (dB/ °C)	< 0.006	< 0.006	< 0.006	< 0.007
PDL (dB)	< 0.15	< 0.15	< 0.15	< 0.2
PMD (ps)	< 0.1	< 0.1	< 0.1	< 0.15
Return Loss (dB)	>45			
Operating Temperature (° C)	-40 to +85			
Storage Temperature (° C)	-40 to +85			
*Note: Insertion Loss values do not include connector losses.				

CWDM reference table – ITU G.694.2

Nominal Central Wavelengths for 20nm Spacing

1270	1450	1271	1451
1290	1470	1291	1471
1310	1490	1311	1491
1330	1510	1331	1511
1350	1530	1351	1531
1370	1550	1371	1551
1390	1570	1391	1571
1410	1590	1411	1591
1430	1610	1431	1611

Housing type

CWDM OADMs available in the following standard housing types and in high-density options

LGX® module

Cassette

Rack-mount 19/23"

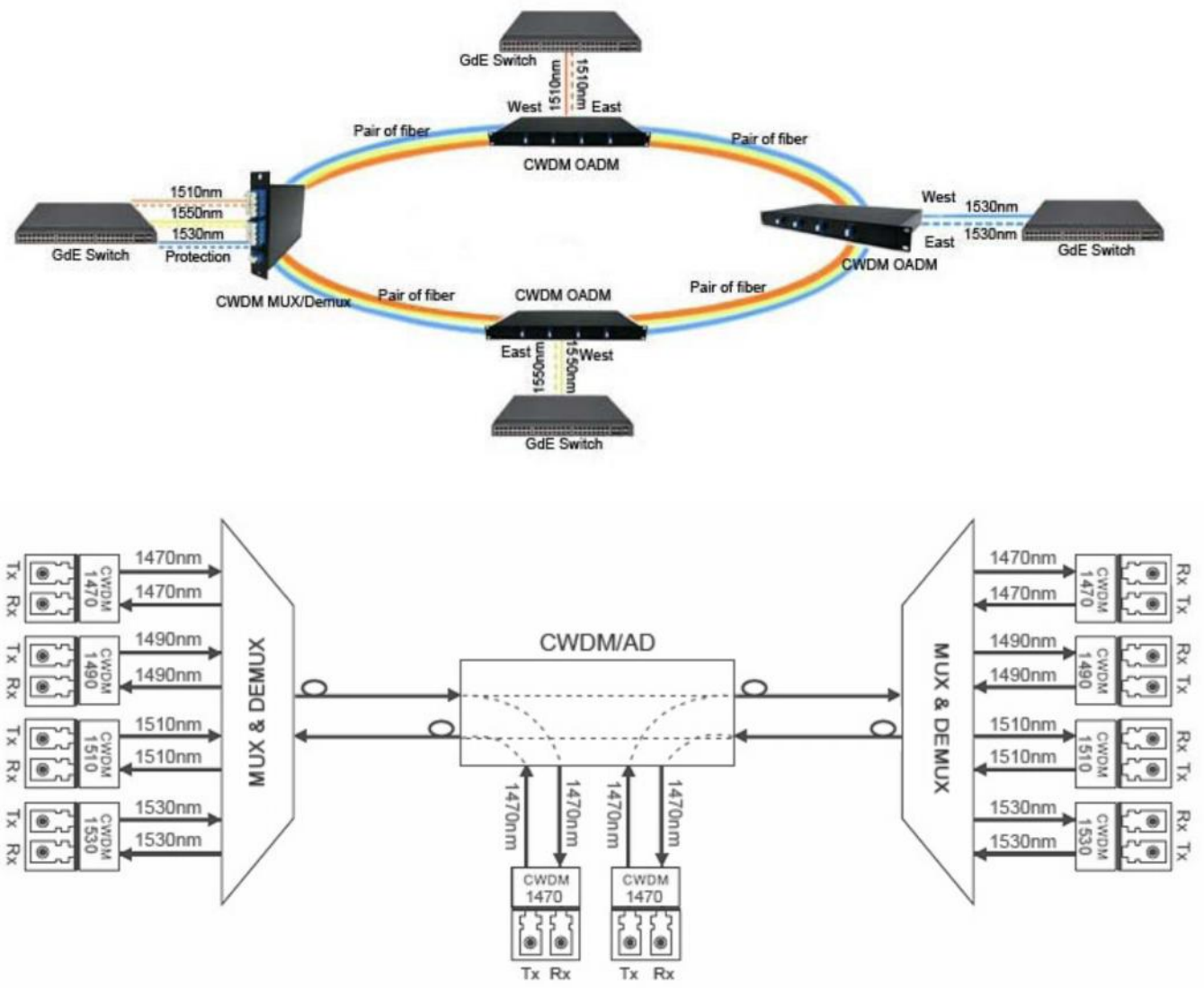
Steel Tube

Note: CWDM OADM housing dimensions dependant on number of channels and packaging in either single mux, single demux, or combination mux/demux. CWDM OADM housing type and size determined at time of inquiry.

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Applications

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1-Channel Duplex Add/Drop MUX/DEMUX

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Ordering information

M W - A D - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8

1. Number of Add | Drop channels:

1	1 Add; 1 Drop
2	2 Add; 2 Drop
4	4 Add; 4 Drop
8	8 Add; 8 Drop
12	12 Add; 12 Drop
16	16 Add; 16 Drop
18	18 Add; 18 Drop

Note: Available in other channels

2. Starting wavelength (nm):

27	1270 / 1271	45	1450 / 1451
29	1290 / 1291	47	1470 / 1471
31	1310 / 1311	49	1490 / 1491
33	1330 / 1331	51	1510 / 1511
35	1350 / 1351	53	1530 / 1531
37	1370 / 1371	55	1550 / 1551
39	1390 / 1391	57	1570 / 1571
41	1410 / 1411	59	1590 / 1591
43	1430 / 1431	61	1610 / 1611

3. Housing type:

C	Cassette
M	LGX® module
R	Rack-mount
T	Steel Tube

4. Adapter | connector type:

AFC	FC/APC
FCU	FC/UPC
ALC	LC/APC
LCU	LC/UPC
ASC	SC/APC
SCU	SC/UPC
PL	Pigtail

5. Fiber length Input / Output for each fiber leg (m):

0.5	0.5 meter
1	1 meter
1.5	1.5 meter
2	2 meter
3	3 meter
5	5 meter

Note: For specifying fiber cable on housings with connectors or pigtails;
Leave Blank if not specifying Fiber Cable

6. Fiber cable type options:

9	900um loose-tube cable
2	2.0mm diameter
3	3.0mm diameter

Note: For specifying fiber cable on housings with connectors or pigtails;
Leave Blank if not specifying Fiber Cable

7. Additional wideband port:

31	1310±40nm wideband
55	1550±40nm wideband

Note: **Leave Blank** if not specifying Wideband Port

8. Monitor port:

M1	1% Monitor Port
M2	2% Monitor Port
M3	3% Monitor Port
M4	4% Monitor Port
M5	5% Monitor Port

Note: **Leave Blank** if not specifying Monitor Port

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