

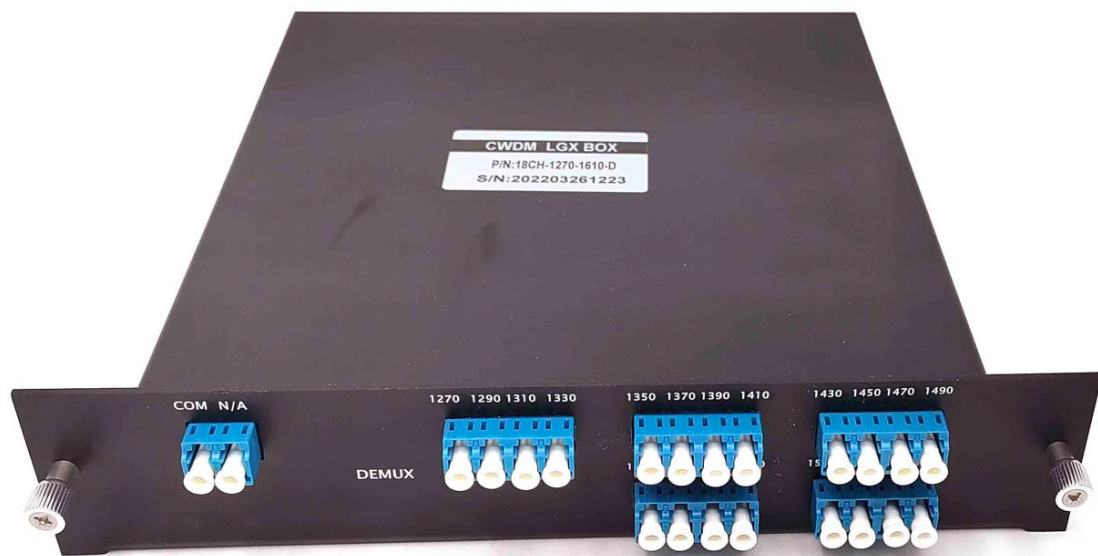


16CH SINGLE FIBER CWDM MUX DEMUX LGX BOX



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The 16 channel CWDM passive MUX and DEMUX modules deliver the benefits of a Coarse Wave Division Multiplexer in a fully passive solution. With matching MUX DEMUX units placed at each end of an optical link, up to 8 bi-directional data channels can be combined and transmitted over a single-mode fiber trunk. It covers all channels from 1270nm to 1610nm in 20nm increments



The DWDM.ME CWDM Board OD/OM16 is ideal for increasing the fiber capacity between two sites without the need for installing or leasing additional fibers.

The MUX/DEMUX is standard LGX box packaged, may be used as a standalone tabletop device or mounted in 1-unit space of a 19" data rack. It can achieve bi-directional 8CH data transmission. With plug-n-play setup and a design that minimizes budget loss, they can readily and seamlessly integrate into an existing environment. Their small form factor and no power requirement means they can be placed virtually anywhere.

Features

- It can achieve bi-directional 8 ch data transmission
- Low Insertion Loss



- Wide passband
- High Channel Isolation
- High Stability and reliability
- Low-profile LGX box design, fits in 2-slot 1U chassis
- Compliant to ITU-T G.694.2 standard and Telcordia GR1209, GR1221
- Standard 18-channel CWDM band 1270 nm - 1610 nm, 20 nm spacing
- Based on thin-film filter technology
- Passive, no electric power required. (MTBF ca. 500 years)

Applications

- CWDM transmission
- Metro and long-haul networks
- Point-to-point CWDM fiber optimization
- Linear add/drop CWDM fiber optimization

Optical Specifications

Parameter	4 Channel	8 Channel	16 Channel	18 Channel
Center Wavelength (nm)	1270~1610 or 1271~1611			
Center Wavelength Accuracy (nm)	±0.5			
Channel Spacing (nm)	20			
Channel Passband(@-0.5dB bandwidth) (nm)	±7.5			
Insertion Loss (dB)	≤1.5	≤2.5	≤3.5	≤3.8
Channel Ripple (dB)	≤0.3			
Isolation (dB)	Adjacent	≥30		
	Non-adjacent	≥40		
Insertion Loss Temperature Sensitivity (dB/°C)	<0.005			
Wavelength Temperature Shifting (nm/°C)	<0.002			
Polarization Dependent Loss (dB)	<0.1			
Polarization Mode Dispersion (ps)	<0.1			



Directivity (dB)	≥50
Return Loss (dB)	≥45
Maximum Power Handling (mW)	300

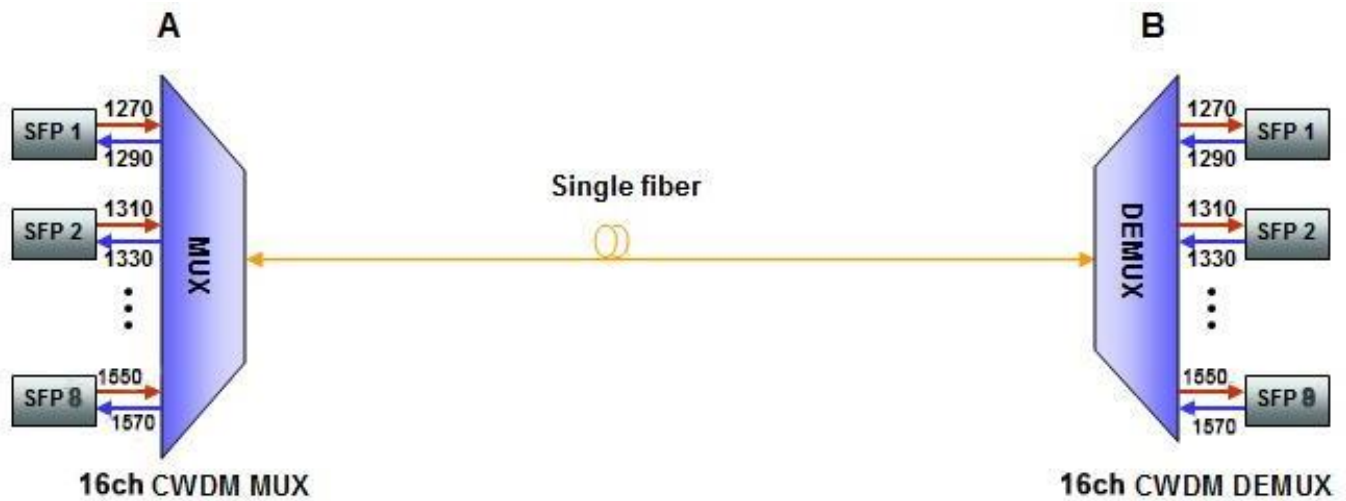
Channels List

Note: Connector is included

ITU channel no.	Wavelength	ITU channel no.	Wavelength
27	1270nm/1271 nm	45	1450nm/1451nm
29	1290nm/1291 nm	47	1470nm/1471nm
31	1310nm/1311 nm	49	1490nm/1491nm
33	1330nm/1331 nm	51	1510nm/1511nm
35	1350nm/1351 nm	53	1530nm/1531nm
37	1370nm/1371 nm	55	1550nm/1551nm
39	1390nm/1391 nm	57	1570nm/1571nm
41	1410nm/1411 nm	59	1590nm/1591nm
43	1430nm/1431 nm	61	1610nm/1611nm

Environmental Conditions

Parameters	Notes	Specifications			Units
		Min	Typ	Max	
Operating Temperature		-5		+65	°C
Storage Temperature		-40		+85	°C
Relative Humidity		0		90	%
Package Dimension	LGX	155(L)×129(W)×29(H)			mm



Model	Channel	ILoss (dB)		Isolation(dB)		Wavelength (nm)
		MU/DMU	MU+D MU	Adjacent	Non-adjacent	
CWDM Board ODM18	18CH MUX and DEMUX	≤3.8	≤4.8	30	40	1270~1610/1271~1611
CWDM Board OM18	18CH MUX	≤3.8	≤4.8	30	40	1270~1610/1271~1611
CWDM Board OD18	18CH DEMUX	≤3.8	≤4.8	30	40	1270~1610/1271~1611
CWDM Board ODM16	16CH MUX and DEMUX	≤3.5	≤4.5	30	40	1270~1610/1271~1611(Any 16CH)
CWDM Board OM16	16CH MUX	≤3.5	≤4.5	30	40	1270~1610/1271~1611(Any 16CH)
CWDM Board OD16	16CH DEMUX	≤3.5	≤4.5	30	40	1270~1610/1271~1611(Any 16CH)
CWDM Board ODM08	8CH MUX and DEMUX	≤3	≤3.5	30	40	1270~1610/1271~1611(Any 8CH)
CWDM Board OM08	8CH MUX	≤3	≤3.5	30	40	1270~1610/1271~1611(Any 8CH)
CWDM Board OD08	4CH DEMUX	≤3	≤3.5	30	40	1270~1610/1271~1611(Any 8CH)
CWDM Board ODM04	4CH MUX and DEMUX	≤1.8	≤2.5	30	40	1270~1610/1271~1611(Any 4CH)
CWDM Board OM04	4CH MUX	≤1.8	≤2.5	30	40	1270~1610/1271~1611(Any 4CH)
CWDM Board OD04	4CH DEMUX	≤1.8	≤2.5	30	40	1270~1610/1271~1611(Any 4CH)