



Overview

DWDM Mux/DeMux 8CH/16CH/48CH Modularized

The EXO Lambda™ is pre-paired with a Mux or DeMux per channel and set as Plug-n-Play with equipment. The modular design can be customized to have 8, 16, or 48 channels in a cassette, with 4 cassettes per 1RU EXO™ Chassis and fully integrated with fiber and copper patching.



8 Channel

16 Channel

48 Channel

Optical Specifications

Parameters		Unit	Specifications		
			8 Channel	16 Channel	48 Channel
Operating Wavelength Range		nm	1520–1570	1520–1570	1520–1570
Standard Channel Plan <i>Custom Channel Plans Available</i>		ITU Channels	CH21, CH22, CH23, CH24, CH25, CH26, CH27, CH28	CH21, CH22, CH23, CH24, CH25, CH26, CH27, CH28, CH31, CH32, CH33, CH34, CH35, CH36, CH37, CH38	Ch16 – Ch63
Channel Spacing		GHz	100	100	100
Channel Pass Band		nm	ITU+/-0.11	ITU+/-0.11	ITU+/-0.11
Insertion Loss for Channels with Connectors		dB	≤ 3.5	≤ 5.2	≤ 7.8
Isolation	Adjacent Isolation	dB	≥ 25	≥ 25	≥ 18
	Non-Adjacent Isolation	dB	≥ 40	≥ 40	≥ 26
Ripple		dB	≤ 0.5	≤ 0.5	≤ 1.5
Directivity		dB	≥ 50	≥ 50	
Return Loss with Connector		dB	≥ 45	≥ 45	≥ 40
Polarization Dependent Loss		dB	≤ 0.2	≤ 0.2	≤ 0.5

Environmental Specifications

Parameters	Unit	Specifications
Operation Temperature Range	C°	0 – 70
Storage Temperature Range	C°	-40 – 85
Maximum Power Handling	mW	300

Mechanical Specifications

Parameters	Specifications		
	8 Channel	16 Channel	48 Channel
Package Dimension (mm)	95*110*34	95*110*34	210*110*34
Fiber Type	G657A1	G657A1	G657A1
Connector Type	LC/UPC	LC/UPC, MTP/APC	LC/UPC, MTP/APC

	Wave2Wave Part #	Description	Channel
8 Channel	88WDM31-3081-MD	8CH 100GHz DWDM Module, Mux+Demux	ITU: CH21-28
8 Channel	88WDM31-3081-MD-2	8CH 100GHz DWDM Module, Mux+Demux	ITU: CH25-32
16 Channel	88WDM31-3161-MD	16CH 100GHz DWDM Module, Mux+Demux	ITU: CH21-28, 31-38
48 Channel	88WDM31-3481-MD	48CH 100GHz DWDM Module, Mux+Demux	ITU: CH16-CH63

Modules Summary

	Description	Type	Part #	CH#s	Wavelength Channels	Package
Dense WDM	EXO® Lambda	100GHz Spacing	88WDM31-3081-MD	8x	C21, C22, C23, C24, C25, C26, C27, C28	EXO® LC
			88WDM51-3161-MD	16x	C21, C22, ..., C37, C38	EXO® MPO
			88WDM51-3481-MD	48x	C16, C17, ..., C62, C63	EXO® MPO
Dense WDM	EXO® Lambda-Z	200GHz Spacing	88WDM31-3081-MD2-8A	8x	C31, C33, C35, C37, C39, C41, C43, C45	EXO® LC
			88WDM31-3081-MD2-8B	8x	C47, C49, C51, C53, C55, C57, C59, C61	EXO® LC
			88WDM31-3081-MD2-16	16x	C31, C33, C35, C37, C39, C41, C43, C45, C47, C49, C51, C53, C55, C57, C59, C61	EXO® LC
Coarse WDM	EXO® Lambda-C4	CWDM4	88WDM31-3041-CMD	4x	1271nm, 1291nm, 1311nm, 1331nm	EXO® LC
	EXO® Lambda-LAN4	LAN WDM4	88WDM31-3041-LMD4	4x	1295.56nm, 1300.05nm, 1304.58nm, 1309.14nm	EXO® LC
	EXO® Lambda-LAN8	LAN WDM8	88WDM31-3081-LMD8	8x	1273.54nm, 1277.89nm, 1282.26nm, 1286.66nm, 1295.56nm, 1300.05nm, 1304.58nm, 1309.14nm	EXO® LC

Standards Compliance

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE
- RoHS

