



4 Data Channels Double Fiber Passive CWDM 2 side OADM DCAD-4-XXYY

Product Description:

4 Channel Double Fiber Passive CWDM 2-sided OADM Unit – DCAD-4 is a member of EDGE Optics xWDM Series product line. We designed EDGE Optics xWDM Series products to allow easy, gradual, logical, and cost-efficient expansion of network bandwidth using industry-leading passive WDM technology. The main advantage of xWDM is its passive nature – no power supply or cooling necessary, robustness – no special micro-climate requirements, and as a passive element, it has MTBF 100+ Years. xWDM is fully data rate or line protocol neutral – it is possible to use with colored transceivers supporting such applications as 1G/10G Ethernet, SDH/SONET, and 8/4/2/1G Fiber Channel. It's simple to install, and requires no configuration or maintenance.

SCAD-4 is a passive 2-side (East and West) Optical Add-Drop Multiplexer (OADM) package based on Thin-Film Filter (TFF) technology, allowing to extract and add 4 data streams from ITU-T G.694.2 compatible Coarse Wavelength Division Multiplex (CWDM) link. The unit has LC/UPC connectors. DCAD-2 is manufactured as an LGX-type package, installed in 19" 1U sub rack fitting any standard equipment rack.

Key Highlights:

- Add/Drop of 4 Links to East and West
- Fully Passive: No Power Supply or Cooling
- MTBF: 100+ Years
- Protocol & Data Rate neutral
- Low Insertion Loss - 1.8 dB
- Compact: LGX Type package
- Easy Installation & Expansion
- 5 Year Warranty

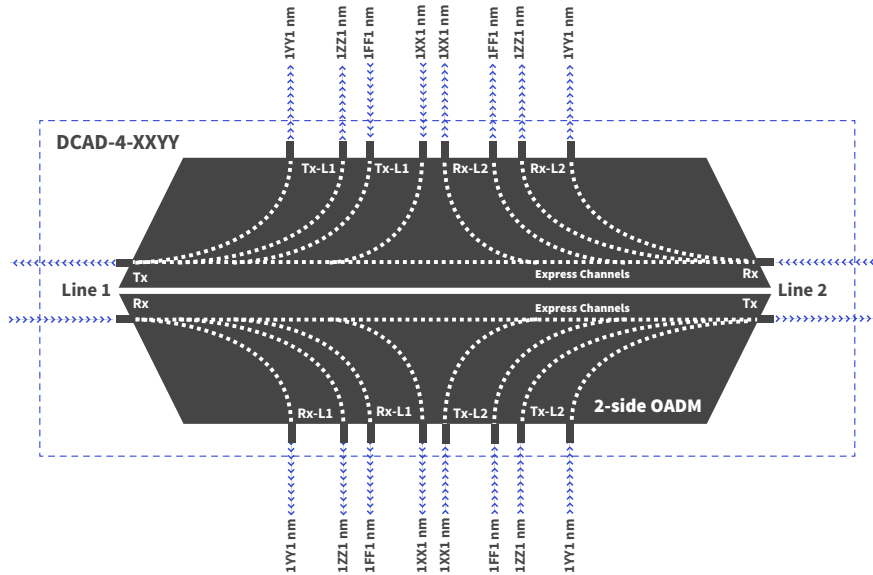


Product Specification:

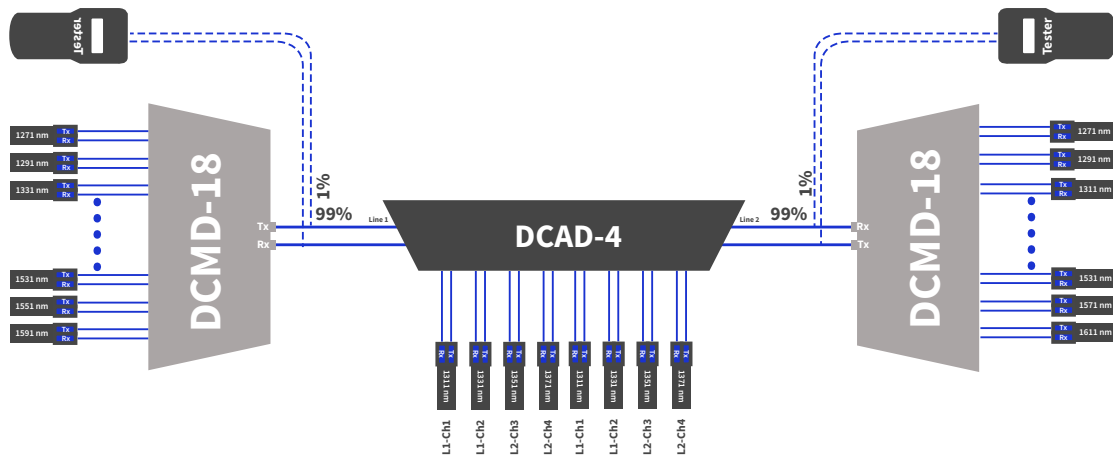
Parameter		Unit	Value
Product Type:			CWDM Two Side OADM
Number of Data Streams:			4
Number of Channels		Ch	4 CWDM Channels According ITU-T G.694.2
Transport Media:			Double Fiber Single Mode Fiber (SMF)
Operating Wavelengths:	center	nm	1271nm 1411nm 1551nm 1291nm 1431nm 1571nm 1311nm 1451nm 1591nm 1331nm 1471nm 1611nm 1351nm 1491nm 1371nm 1511nm 1391nm 1531nm
Filter Technology:			TFF (Thin Film Filter)
Passband:	λ_{center}	nm	± 7.5 nm
Channel Spacing:		nm	20 nm
Insertation Loss Add/Drop Channels:	Max	dB	1.8 dB
Insertation Loss Express Channels:	Max	dB	2.2 dB
Isolation Adjacent Channels:	Min	dB	> 30 dB
Isolation Non-Adjacent Channels:	Min	dB	> 45 dB
Channel Passband Ripple:	Min	dB	< 0.3 dB
Plarization Dependant Los (PDL):	Max	dB	< 0.1 dB
Polarization Mode Dispersion (PMD):	Max	ps/nm	< 0.1 PS
Directivity:	Min	dB	> 50 dB
Return Loss:	Min	dB	> 45 dB
Maximum Power Handling:	Max	mW	500 mW
Connectors:			LC Adapters for use with TIA/EIA 604-10 compliant LC UPC Connectors
Operating Temperature:		(°C)	-5~+70 (°C)
Storage Temperature:		(°C)	-40~+85 (°C)
Dimensions (W x H x D):		mm	214 x 41.3 x 198
Relative Humidity:		%	0 - 90%
Compliance:			ITU-T G.694.2, CE, ISO, RoHS



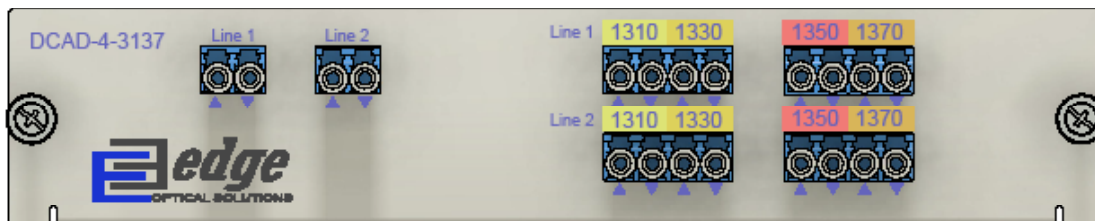
Functional Diagram:



Network Diagram:



Front Panel:



L1/L2: East or West Line interface for common signal

L1-Ch1: CWDM Channel colored add/drop interfaces

Installation:



In order to install CWDM LGX Module in 19" rack, please order 19" 1U sub-rack supporting up to two LGX modules. Product code **LGX-RCK-2-1U**.

Warranty:

EDGE Optic's provides a limited warranty for **sixty (60)** months from Purchaser's receipt of the Equipment represented in this data sheet against defective design or workmanship.



Supported Versions:

PN	Description
DCLT-4-3137	Double Fiber 2 side (East and West) OADM Unit Adding/Dropping 4 channels: 1310nm 1330nm 1350nm 1370nm
DCLT-4-3945	Double Fiber 2 side (East and West) OADM Unit Adding/Dropping 4 channels: 1390nm 1410nm 1430nm 1450nm
DCLT-4-4753	Double Fiber 2 side (East and West) OADM Unit Adding/Dropping 4 channels: 1470nm 1490nm 1510nm 1530nm
DCLT-4-5561	Double Fiber 2 side (East and West) OADM Unit Adding/Dropping 4 channels: 1550nm 1570nm 1590nm 1610nm

