



1 Data Channels Double Fiber Passive CWDM 1side OADM DCLT-1-XX

Product Description:

1 Channel Double Fiber Passive CWDM Line Termination Unit – DCLT-1 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.

DCLT-1 is a passive 1-side Optical Add-Drop Multiplexer (OADM) package based on Thin-Film Filter (TFF) technology, allowing extract 1 data stream from ITU-T G.694.2 compatible double fiber Coarse Wavelength Division Multiplex (CWDM) link. The unit has LC/UPC connectors. DCLT-1 acts as a one-sided termination unit, meaning that the link is extracted at the site where DCLT-1 is installed and is not added to the other side of the CWDM link. DCLT-1 is manufactured as an LGX-type package, installed in a 19" 1U sub-rack fitting any standard equipment rack.

Key Highlights:

- Line Termination of 1 Link
- Fully Passive: No Power Supply or Cooling
- MTBF: 100+ Years
- Protocol & Data Rate neutral
- Low Insertion Loss - 1.0 dB
- Compact: LGX Type package
- Easy Installation & Expansion
- 5 Year Warranty

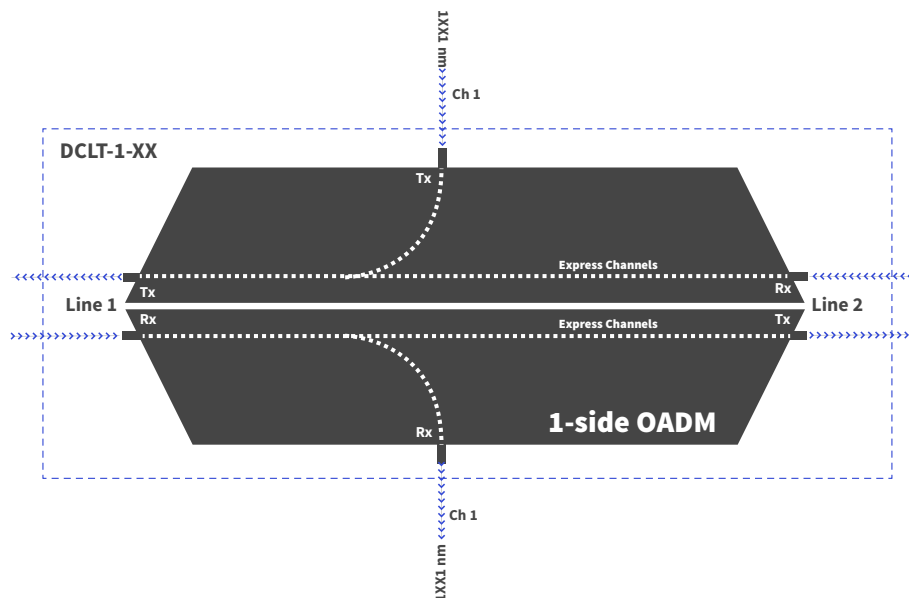


Product Specification:

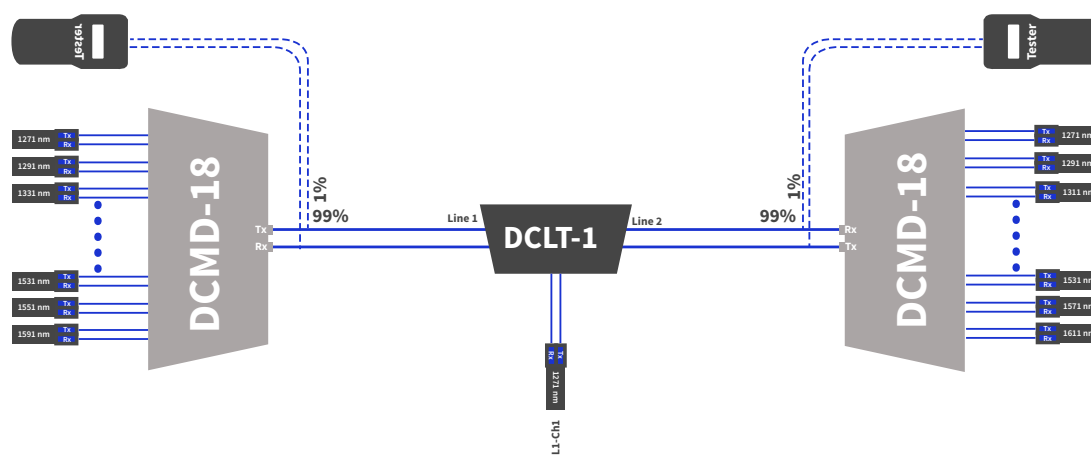
Parameter		Unit	Value
Product Type:			CWDM One Side (Line Termination) OADM
Number of Data Streams:			1
Number of Channels		Ch	1 CWDM Channels According ITU-T G.694.2
Transport Media:			Double Fiber Single Mode Fiber (SMF)
Operating Wavelengths:	center	nm	1311nm 1451nm 1591nm 1331nm 1471nm 1611nm 1351nm 1491nm 1371nm 1511nm 1391nm 1531nm 1411nm 1551nm 1431nm 1571nm
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	1.0 dB
Insertation Loss Express Channels:	Max	dB	0.6 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



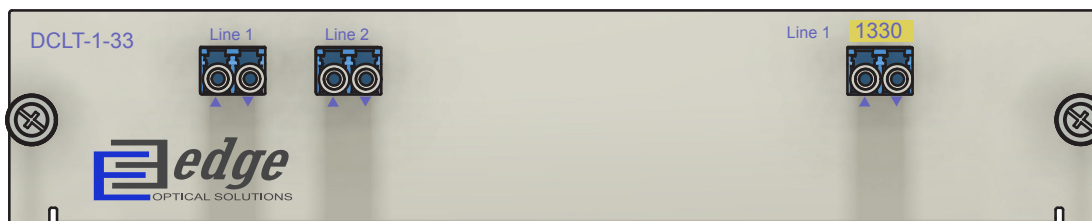
Functional Diagram:



Network Diagram:



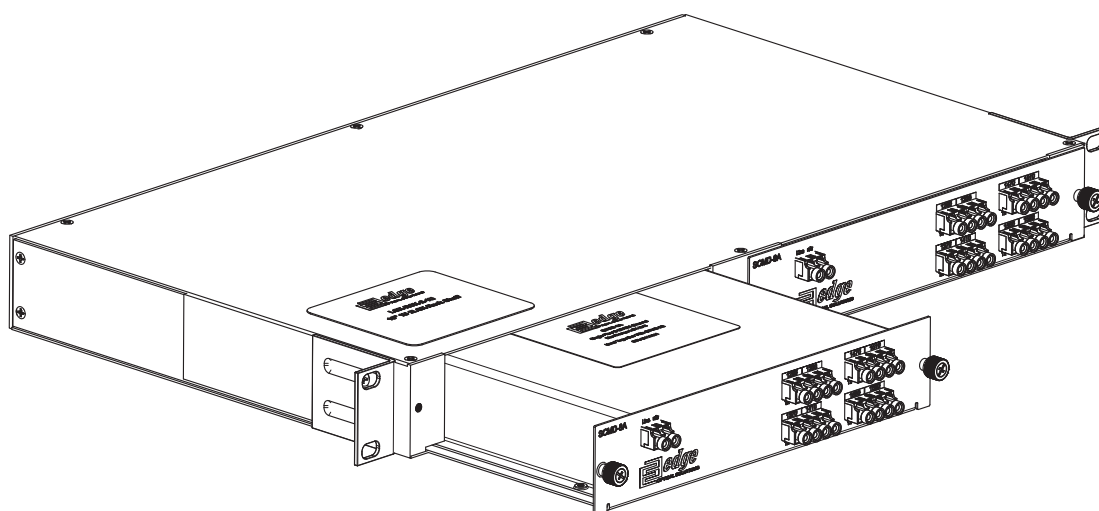
Front Panel:



Line 1/Line 2: 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-1-27	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1270nm
DCLT-1-29	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1290nm
DCLT-1-31	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1310nm
DCLT-1-33	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1330nm
DCLT-1-35	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1350nm
DCLT-1-37	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1370nm
DCLT-1-39	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1390nm
DCLT-1-41	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1410nm
DCLT-1-43	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1430nm
DCLT-1-45	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1450nm
DCLT-1-47	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1470nm
DCLT-1-49	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1490nm
DCLT-1-51	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1510nm
DCLT-1-53	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1530nm
DCLT-1-55	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1550nm
DCLT-1-57	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1570nm
DCLT-1-59	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1590nm
DCLT-1-61	Double Fiber 1 side (East or West) OADM Line Termination Unit supporting 1 channel: 1610nm

