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Product Data Sheet

2 Data Channels Double Fiber Passive DWDM 1side OADM

DDLT-2

Product Description:

2 Channels Double Fiber Passive DWDM Line Termination Unit – DDLT-2 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.

DDLT-2 is a passive double fiber 1-side Optical Add-Drop Multiplexer (OADM) package based on Thin-Film Filter (TFF) technology, allowing the extract 2 data streams from ITU-T G.694.1 compatible Dense Wavelength Division Multiplex (DWDM). DDLT-2 acts as a one-side termination unit, meaning that the link is extracted in the site where DDLT-2 is installed and is not added toward the other side of the DWDM link. DDLT-2 is manufactured as an LGX-type package, installed in a 19" 1U sub-rack fitting any standard equipment rack.

Key Highlights:

- Line Termination of 2 Links
- Fully Passive: No Power Supply or Cooling
- MTBF: 100+ Years
- Protocol & Data Rate neutral
- Low Insertation Loss - 1.2 dB
- Compact: LGX Type
- 5 Year Warranty

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Product Specification:

Parameter		Unit	Value
Product Type:			DWDM One Side (Line Termination) OADM
Number of Data Streams:			2
Number of Channels		Ch	2 DWDM Channels According ITU-T ITU G.694.1
Transport Media:			Double Fiber Single Mode Fiber (SMF)
Operating Wavelengths:	center	nm	ITU-T C-band 100 GHz Grid (According to supported versions below)
Filter Technology:			TFF (Thin Film Filter)
Passband:	λ_{center}	nm	>0.22 nm
Channel Spacing:		nm	100GHz (0.8nm)
Insertation Loss Add-Drop:	Max	dB	1.2 dB
Insertation Loss Express:	Max	dB	0.8 dB
Isolation Adjacent Channels:	Min	dB	>25 dB
Isolation Non-Adjacent Channels:	Min	dB	>35 dB
Channel Passband Ripple:	Min	dB	≤0.5 dB
Polarization 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:	Max	mW	500 mW
Connectors:			LC Adapters for use with TIA/EIA 604-10 compliant LC UPC Connectors
Operating Temperature:		(°C)	0~+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.694.1, CE, ISO, RoHS

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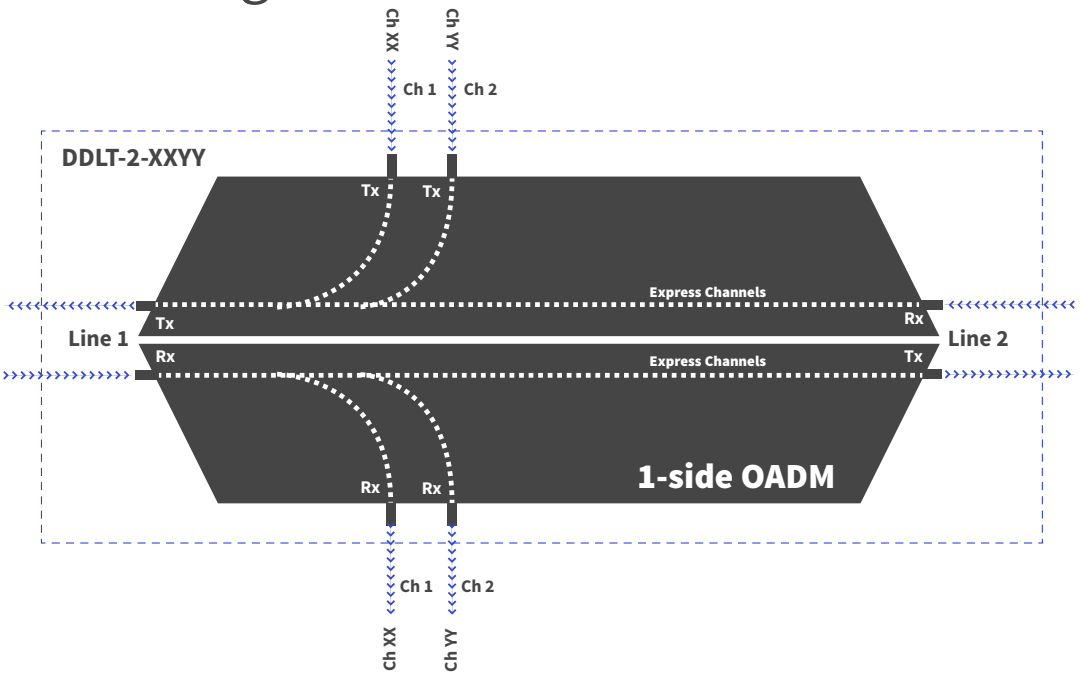
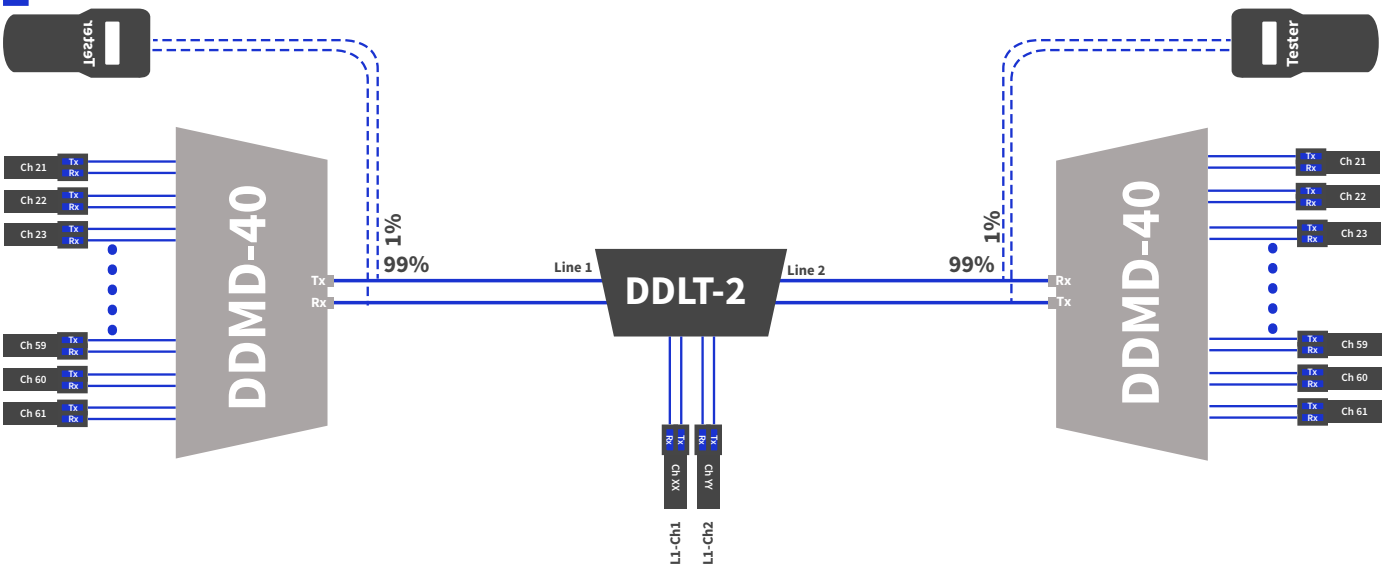
Functional Diagram:



Network Diagram:



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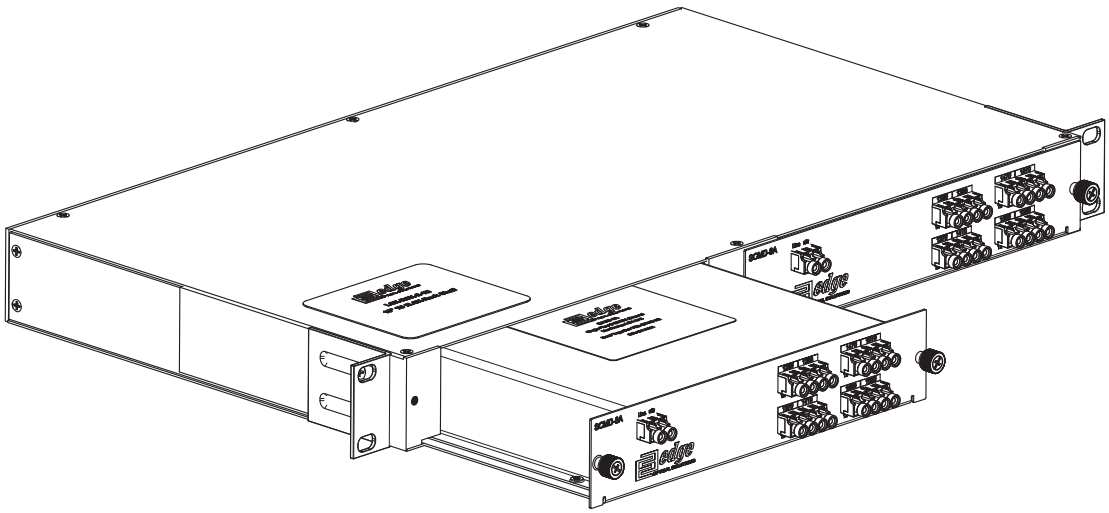
Front Panel:

Line 1/2: Line interface for common signal

Ch XX: DWDM Channel colored transceivers 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.

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Supported Versions:

PN	Description
DDLT-2-2122	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 21 & Ch 22
DDLT-2-2324	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 23 & Ch 24
DDLT-2-2526	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 25 & Ch 26
DDLT-2-2728	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 27 & Ch 28
DDLT-2-2930	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 29 & Ch 30
DDLT-2-3132	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 31 & Ch 32
DDLT-2-3334	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 33 & Ch 34
DDLT-2-3536	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 35 & Ch 36
DDLT-2-3738	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 37 & Ch 38
DDLT-2-3940	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 39 & Ch 40
DDLT-2-4142	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 41 & Ch 42
DDLT-2-4344	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 43 & Ch 44
DDLT-2-4546	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 45 & Ch 46
DDLT-2-4748	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 47 & Ch 48
DDLT-2-4950	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 49 & Ch 50
DDLT-2-5152	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 51 & Ch 52
DDLT-2-5354	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 53 & Ch 54
DDLT-2-5556	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 55 & Ch 56
DDLT-2-5758	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 57 & Ch 58
DDLT-2-5960	Double Fiber 1-Side Line Termination Unit adding/droping DWDM 100GHz Ch 59 & Ch 60

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