



4 Data Channels Double Fiber Passive DWDM 1side OADM DDLT-4

Product Description:

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. Main advantage of xWDM is its passive nature – no power supply or cooling necessary, robustness – no special micro-climate requirements and as passive element, it has MTBF 100+ Years. xWDM is – it 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, requires no configuration or maintenance.

DDLT-4 is passive double fiber 1-side Optical Add-Drop Multiplexer (OADM) package based on Thin-Film Filter (TFF) technology, allowing extract 4 data streams from ITU-T G.694.1 compatible Dense Wavelength Division Multiplex (DWDM). DDLT-4 acts as one side termination unit, meaning that link with is extracted in site where DDLT-4 is installed, is not added towards other side of DWDM link. DDLT-4 is manufactured as LGX type B module, installed in 19" 1U sub rack fitting any standard equipment rack.

Key Highlights:

- Line Termination of 4 Links
- Fully Passive: No Power Supply or Cooling
- MTBF: 100+ Years
- Protocol & Data Rate neutral
- Low Insertion Loss - 1.5 dB
- Compact: LGX Type B package
- Easy Installation & Expansion
- 5 Year Warranty

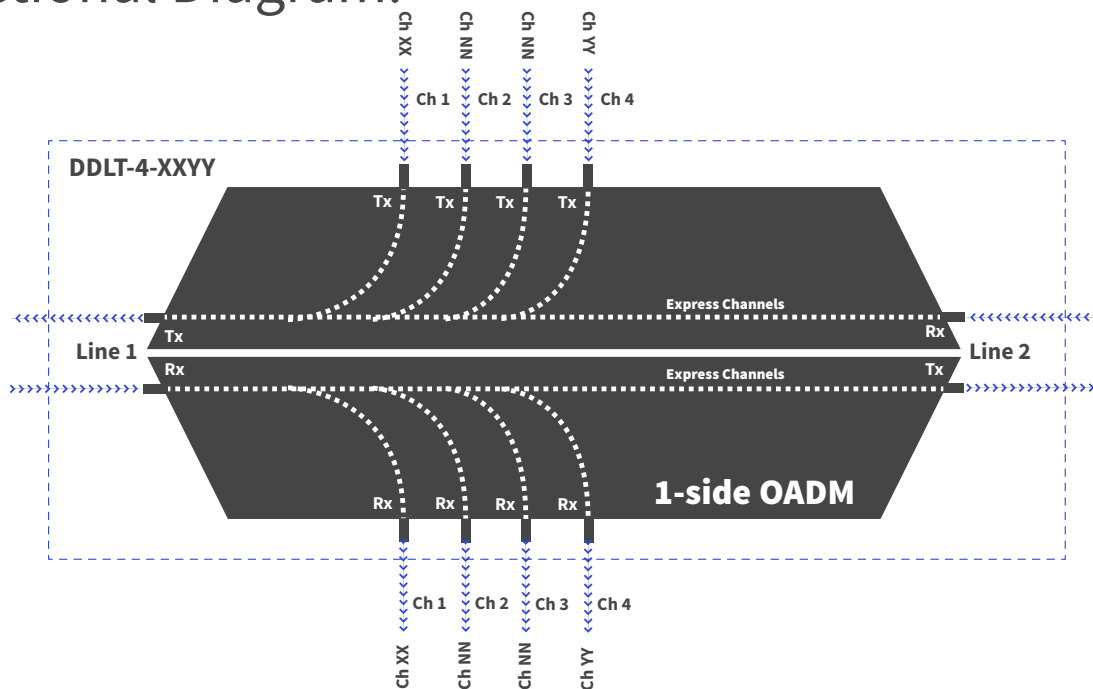


Product Specification:

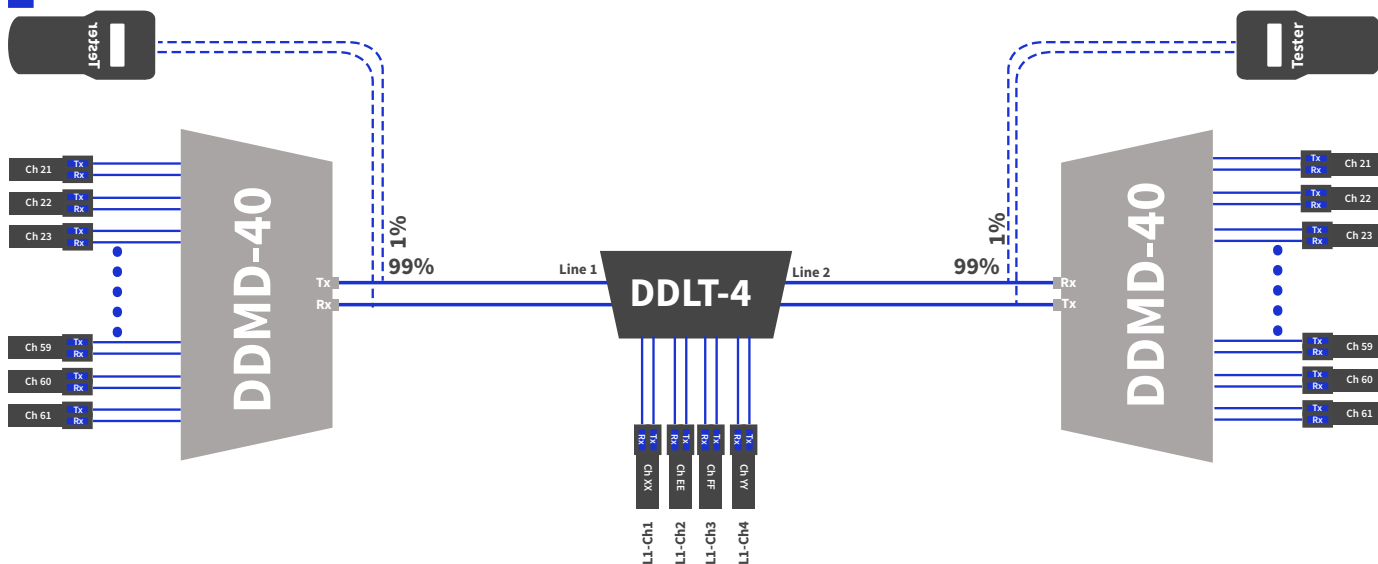
Parameter		Unit	Value
Product Type:			DWDM One Side (Line Termination) OADM
Number of Data Streams:			4
Number of Channels		Ch	4 DWDM Channels According ITU-T ITU G.694.1
Transport Media:			Double Fiber Single Mode Fiber (SMF)
Operating Wavelengths:	center	nm	ITU-T C-band 100 GHz Grid (According to supported versions below)
Filter Technology:			TFF (Thin Film Filter)
Passband:	λ_{center}	nm	± 0.1 nm
Channel Spacing:		nm	0.8 nm
Insertation Loss <small>Add-Drop</small> :	Max	dB	1.5 dB
Insertation Loss <small>Express</small> :	Max	dB	1.0 dB
Isolation Adjacent Channels:	Min	dB	25 dB
Isolation Non-Adjacent Channels:	Min	dB	30 dB
Channel Passband Ripple:	Min	dB	0.75 dB
Polarization Dependant Los (PDL):	Max	dB	<0.5 dB
Polarization Mode Dispersion (PMD):	Max	ps/nm	< 0.50 ps/nm
Directivity:	Min	dB	>21 dB
Return Loss:	Min	dB	>40 dB
Maximum Power:	Max	dBm	23 dBm on common port
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.694.1, CE, ISO, RoHS, Telecordia GR-20



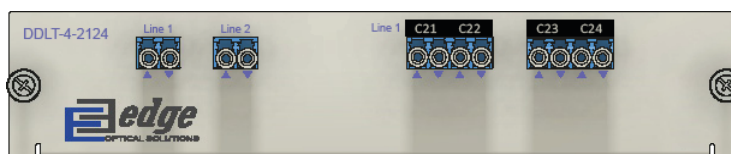
Functional Diagram:



Network Diagram:



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.



Supported Versions:

PN	Description
DDLT-4-2124	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 21 / Ch 22 / Ch 23 / Ch 24
DDLT-4-2528	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 25 / Ch 26 / Ch 27 / Ch 28
DDLT-4-2932	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 29 / Ch 30 / Ch 31 / Ch 32
DDLT-4-3336	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 33 / Ch 34 / Ch 35 / Ch 36
DDLT-4-3740	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 37 / Ch 38 / Ch 39 / Ch 40
DDLT-4-4144	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 41 / Ch 42 / Ch 43 / Ch 44
DDLT-4-4548	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 45 / Ch 46 / Ch 47 / Ch 48
DDLT-4-4952	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 49 / Ch 50 / Ch 51 / Ch 52
DDLT-4-5356	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 53 / Ch 54 / Ch 55 / Ch 56
DDLT-4-5760	Double Fiber 1-Side Line Termination Unit adding/dropping DWDM 100GHz Ch 57 / Ch 58 / Ch 59 / Ch 60

