





4 Data Channels Single Fiber Passive CWDM Mux/Demux SCMD-2B-E

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.

SCMD-2B-E is passive multiplexer/De-multiplexer package based on Thin-Film Filter (TFF) technology, allowing organize 2 duplex and parallel protocol independent ITU-T G.694.2 compatible Coarse Wavelength Division Multiplex (CWDM) data streams over single fibre of single mode optical fiber. SCMD-2B-E is manufactured as LGX type B module, installed in 19" 1U sub rack fitting any standard equipment rack. SCMD-2B-E is used together with counterpart SCMD-2A-E module in other end of line. Monitor port(1%) ensures easy troubleshooting without downtime. SCMD-2B-E is equipped with Upgrade port, with is usable with legacy BiDi optical transceivers operating within 1260-1460 nm range or with Low-Band CWDM Multiplexers, such as SCMD-4B-L or SCMD-2B-L.

Key Highlights:

- 2 CWDM Data Streams over Single SMF
- Fully Passive: No Power Supply or Cooling
- MTBF: 100+ Years
- Protocol & Data Rate neutral
- Low Insertation Loss 1.4 dB
- Upgrade Port Supporting 1260-1460 nm
- Compact: LGX Type B package
- Easy Installation & Expansion
- Monitoring Port for easy troubleshooting
- 5 Year Warranty



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Product Specification:

Parameter		Unit	Value
Product Type:			CWDM MUX/DEMUX Unit
Number of Data Streams:			2
Number of Channels		Ch	4 CWDM Channels According ITU-T G.694.2
Transport Media:			Single Fiber Single Mode Fiber (SMF)
Operating Wavelengths:	center	nm	Ch1-Tx:1531nm Ch1-Rx:1511nm Ch2-Tx:1571nm Ch2-Rx:1551nm
Filter Technology:			TFF (Thin Film Filter)
Passband:	λ center	nm	± 6.5 nm
Channel Spacing:		nm	20 nm
Band-Pass ("Skip") Filters:			Yes
Insertation Loss Passband:	Мах	dB	1.4 dB
Insertation Loss Upgrade:	Мах	dB	0.8 dB
Insertation Loss 1% Monitor Port:	Мах	dB	23.8 dB
Monitoring Port Type:			1% Monitoring Port
Isolation Adjacent Channels:	Min	dB	30 dB
Isolation Non-Adjacent Channels:	Min	dB	40 dB
Channel Passband Ripple:	Min	dB	0.3 dB
Plarization Dependant Los (PDL):	Мах	dB	<0.15 dB
Polarization Mode Dispersion (PMD):	Max	ps/nm	< 0.15 ps/nm
Directivity:	Min	dB	>50 dB
Return Loss:	Min	dB	>45 dB
Maximum Power Handling:	Max	mW	< 300 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%

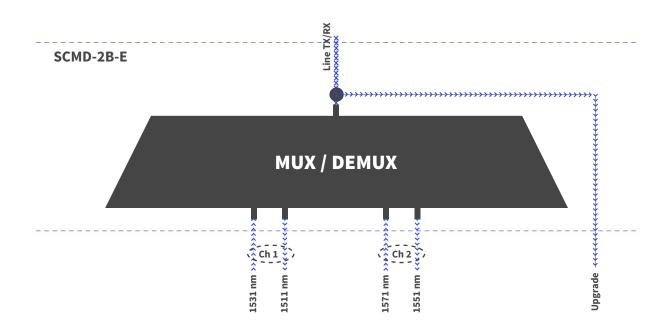




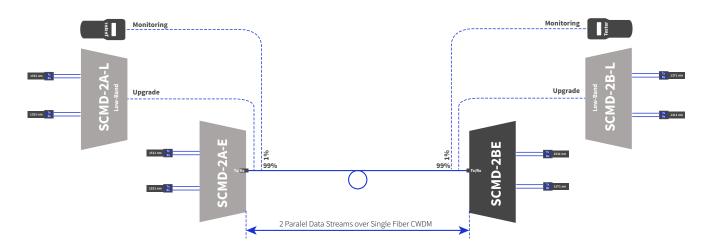


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Functional Diagram:



Network Diagram:





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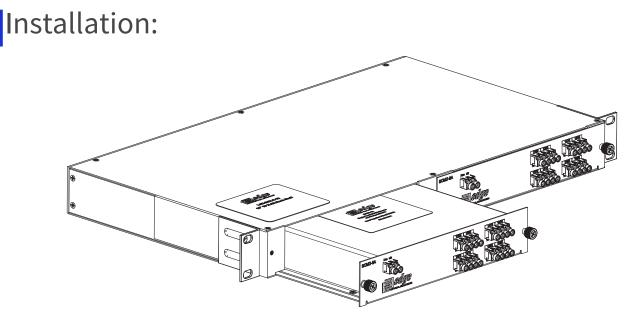
Front Panel:



Line: Line interface for common signal Mon. Interface for in-service performance testing



1270-1610: CWDM Channel colored transceivers interfaces UP: Upgrade port supporting 1260-1460nm



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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