

CWDM Family

Line Cards for SigmaLinks

Transponder

The transponder card converts a data signal to the correct wavelength for transmission on a specific CWDM channel. By supporting SFP optics on both line side and client side interfaces, the transponder provides a truly flexible and easy to deploy solution for all applications. The transponder supports 2R regeneration, which consists of re-amplification and reshaping.



Mux/DeMux

Optical Mux/Demux (Multiplexer/Demultiplexer) cards are available in 4-channel or 8-channel models and are used to combine signals from 1-channel or 2-channel transponder cards on to a single pair of fiber. A 1311nm CWDM channel is accessible separately. The MUX/DEMUX cards provide the primary wave division and combination functions. Line side wave lengths require translation to client side equipment via the transponder card.



Features

- 2R regeneration (Re-amplification and reshaping)
- Line rate support from 100Mbps up to 2.5Gbps
- Client Side Wavelengths: 850/ 1310/ 1550nm
- Line Side CWDM Wavelengths: 1471/ 1491/ 1511/ 1531 / 1551/ 1571/ 1591/ 1611nm
- Optical Connector: SFP-LC (On both Line & Client Side)

Features

- Four different CWDM Mux/ Demux are available:
 - 4 Ch (1531/1551/1571/1591nm)
 - 4+1 Ch (1531/1551/1571/1591/ + 1311nm)
 - 8 Ch (1471/1491/1511/1531/1551/1571/1591/1611nm)
 - 8+1 Ch (1471/1491/1511/1531/1551/1571/1591/1611 + 1311nm)
- Full native mode performance
- Optical connectors: LC connectors, SMF 9/ 125mm
- Optical input/ output monitoring port
- Passive model requires no power
- Protocol transparent, no limitation
- Utilizes industry standard ITU CWDM wavelengths

Specifications

Ports	Connector : SFP LC
Optical Interface :	Data rate : 100Mbps, 1.25Gbps, 2.5Gbps
	Cable type : MM 62.2/125µm, 50/125µm.
	Distance : SM 9/125µm
	Wavelength : 850, 1310, 1470 ~ 1610nm
LEDs	Power, Link(Line), Link(Client), TX/Act, Loopback
Power	DC12V In
Power Consumption	1channel <5W, 2 channel <10W
Dimensions (D x W x H)mm	220 x 162 x 25mm
Weight	900g
Temperature	0~50°C (Operating) ,0~70°C (Storage)
Humidity	10~90% non-condensing
Certification	CE, FCC, RoHS
MTBF	57,000 hours

Ordering Information

- **SML-50-8011-L** 1.25G,1Ch transponder card
- **SML-50-8012-L** 1.25G,2Ch transponder card
- **SML-50-8021-L** 2.5G,1Ch transponder card
- **SML-50-8022-L** 2.5G, 2Ch transponder card
- **SML-50-8032-L** 2.5G, 2Ch transponder card

Specifications

Connector	LC
Standard	ITU-T G.694.2
Wavelength	SML-50-8181 1310, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610nm
	SML-50-8141 1310, 1550, 1570, 1590, 1610nm
Insertion Loss	SML-50-8181 < 3.5dB for CWDM wavelength
	SML-50-8141 < 5.0dB for CWDM wavelength
Return Loss	> 45dB
Dimensions (D x W x H)mm	220 x 162 x 25mm
Weight	900g
Temperature	0~50°C (Operating) ,20~70°C (Storage)
Humidity	10~90% non-condensing
Certification	CE, FCC, RoHS
MTBF	57,000 hours

Ordering Information

- **SML-50-8041-L** 4+1 channels Mux/DeMux card (1551/1571/1591/1611 + 1311nm)
- **SML-50-8043-L** 8+1 channels Mux/DeMux card (1471/1491/1511/1531/1551/1571/1591/1611 + 1311nm)