

SBM (Single Fiber Fixed MUX DEMUX Card)

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Details

The single fiber MUX / DEMUX board (SBM) launched by D Tech Trading is specially designed for DWDM network applications with multiple wavelengths. It can multiplex different wavelengths of optical onto one optical fiber or separate multiple optical channels multiplexed on the same optical fiber by wavelength. Based on thin film filter (TFF) technology, it works on ITU grid with 100GHz channel spacing. The wavelength of the ITU channel is optional. It supports serial connection of EDFA for single fiber bidirectional long-distance transmission with built in OSC monitoring channel.

Application case:

It is applicable to 4-channel and 8-channel DWDM optical signal MUX and DEMUX in single fiber transmission

Product specification:

Specification	4 channel	8 channel
Function	Support Mux&Deux of 4 DWDM optical signals	Support Mux&Deux of 8 DWDM optical signals

Specification	4 channel	8 channel
Channel number	4?@100 GHz (board model as table 3)	8?@100 GHz (board model as table 4)
Insertion loss	?2 dB (?-IN to SIG-OUT/SIG-IN to ?-OUT)	?3 dB (?-IN to SIG-OUT/SIG-IN to ?-OUT)
3dB spectral width	>75GHz	>75GHz
Adjacent channels isolation	>25dB	>25dB
Non-adjacent channels isolation	>35dB	>35dB
OSC channel	1491nm/1511nm	
Single fiber bidirectional coupling insertion loss	?1.5 dB (RC to LINE/LINE to TC)	?1.5 dB (OSC-A to LINE/LINE to OSC-D)
Slot number	1 slot	
Power monitoring	Support optical power monitoring of mux port (SIG)	

Specification	4 channel	8 channel
Indicator light	Support optical power indicator light of mux port (SIG)	
Extended function	Support extended cascading, and use EXP port	Not support for docking during cascading

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Table 3: single fiber 4-channel fixed mux demux board

Card Model	Port Range	Add Center Frequency Range (THz)	Drop Center Frequency Range (THz)
SBM2242	A22/D39, A23/D40, A24/D41, A25/D42	192.20~192.50	193.90~194.20
SBM4222	A39/D22, A40/D23, A41/D24, A42/D25	193.90~194.20	192.20~192.50
SBM2646	A26/D43, A27/D44, A28/D45, A29/D46	192.60~192.90	194.30~194.60

Card Model	Port Range	Add CenterFrequency Range(THz)	Drop Center Frequency Range (THz)
SBM4626	A43/D26, A44/D27, A45/D28, A46/D29	194.30~194.60	192.60~192.90

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Card Model	Port Range	Add Center Frequency Range (THz)	Drop Center Frequency Range (THz)
SBM2246	A22/D39, A23/D40, A24/D41, A25/D42	192.20~192.90	193.90~194.60
	A26/D43, A27/D44, A28/D45, A29/D46		
SBM4622	A39/D22, A40/D23, A41/D24, A42/D25	193.90~194.60	192.20~192.90
	A43/D26, A44/D27, A45/D28, A46/D29		