

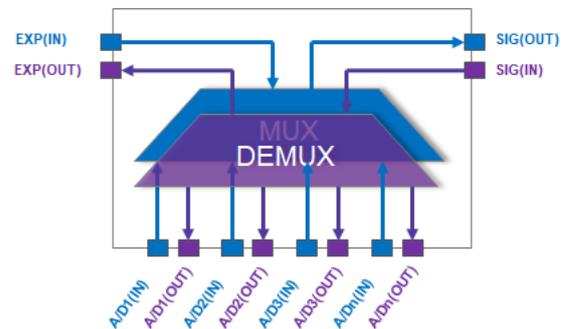
Dual Fiber Fixed OADM Card: TFF

The dual fiber fixed OADM (optical add-drop multiplexer) card (TFF) launched by Sintai Communication is specially designed for multi-wavelength DWDM network applications. 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. DWDM wavelength range is 1528nm to 1568nm, and ITU channel wavelength is optional. It has a series of advantages such as low insertion loss and high channel isolation.

Product view



Function structure



Application case

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

Product specification

Dual Fiber Fixed MuxDemux Card		
Specs	4-channel	8-channel
Function	Support Mux&Deux of 4 DWDM optical signals	Support Mux&Deux of 8 DWDM optical signals
Chanel number	4λ@100 GHz (191.4THz~196.1THz, board model as table 1)	8λ@100 GHz (191.4THz~196.1THz, board model as table 2)
Insertion loss	≤2 dB	≤3 dB
3dB spectral width	>75GHz	>75GHz
Adjacent channels isolation	>25dB	>25dB
Non-adjacent channels isolation	>35dB	>35dB
Slot number	1 slot	
Power monitoring	Support optical power monitoring of Mux port (SIG)	
Indicator light	Support optical power indicator light of Mux port (SIG)	
Extended function	Support extended cascading, and use EXP port for docking during cascading	

Table 1: Dual Fiber 4CH Fixed OADM Card

Card model	Port	Center frequency (THz)
TFF5659	A56/D56~A59/D59	195.60~195.90
TFF5255	A52/D52~A55/D55	195.20~195.50
TFF4750	A47/D47~A50/D50	194.70~195.00
TFF4346	A43/D43~A46/D46	194.30~194.60
TFF3841	A38/D38~A41/D41	193.80~194.10
TFF3437	A34/D34~A37/D37	193.40~193.70
TFF2932	A29/D29~A32/D32	192.90~193.20
TFF2528	A25/D25~A28/D28	192.50~192.80
TFF2023	A20/D20~A23/D23	192.00~192.30
TFF1619	A16/D16~A19/D19	191.60~191.90

Table 2: Dual Fiber 8CH Fixed OADM Card

Card model	Port	Center frequency (THz)
TFF5360	A53/D53~A60/D60	195.30~196.00
TFF4552	A45/D45~A52/D52	194.50~195.20
TFF3744	A37/D37~A44/D44	193.70~194.40
TFF2936	A29/D29~A36/D36	192.90~193.60
TFF2128	A21/D21~A28/D28	192.10~192.80

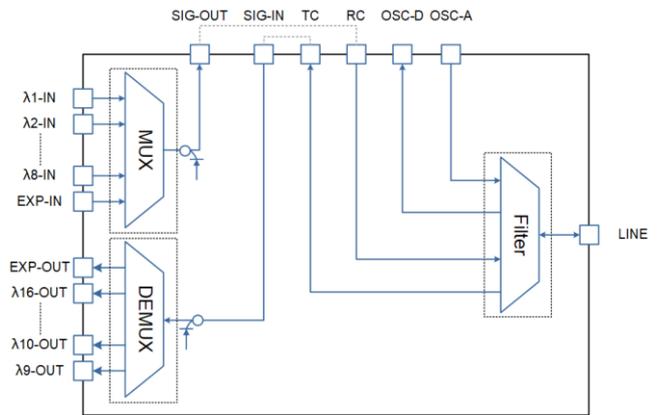
Single Fiber Fixed OADM Card: SBM

The single fiber fixed OADM (optical add-drop multiplexer) card (SBM) launched by Sintai Communication is specially designed for single-fiber bi-directional DWDM network applications, can be different wavelengths of light multiplexed into a single fiber or multiplexed in the same optical fiber multiple optical channels separated by wavelength; it is based on thin-film filter technology, works in an ITU grid with 100GHz channel spacing, the ITU channel wavelength is optional, supports serial connection of EDFA to achieve single-fiber bidirectional long-distance transmission, and has a built-in OSC monitoring channel.

Product view



Function structure



Application case

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

Product specification

Single Fiber Fixed MUX DEMUX Board		
Specs	4 channel	8 channel
Function	Support Mux&Deux of 4 DWDM optical signals	Support Mux&Deux of 8 DWDM optical signals
Chanel number	4λ@100 GHz (board model as table 1)	8λ@100 GHz (board model as table 2)
Insertion loss	≤2 dB (λ-IN to SIG-OUT/SIG-IN to λ-OUT)	≤3 dB (λ-IN to SIG-OUT/SIG-IN to λ-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	≤1.5dB (RC to LINE/LINE to TC) ≤1.5dB (OSC-A to LINE/LINE to OSC-D)	
Slot number	1 slot	
Power monitoring	Support optical power monitoring of Mux port (SIG)	
Indicator light	Support optical power indicator light of Mux port (SIG)	
Extended function	Support extended cascading, and use EXP port for docking during cascading	Not support

Table 1: Single Fiber 4CH Fixed OADM Card

Card model	Port	Center frequency (THz)	
SBM2242	A22/D39, A23/D40, A24/D41, A25/D42	Add: 192.20~192.50 Drop: 193.90~194.20	Used in pairs
SBM4222	A39/D22, A40/D23, A41/D24, A42/D25	Add: 193.90~194.20 Drop: 192.20~192.50	
SBM2646	A26/D43, A27/D44, A28/D45, A29/D46	Add: 192.60~192.90 Drop: 194.30~194.60	
SBM4626	A43/D26, A44/D27, A45/D28, A46/D29	Add: 194.30~194.60 Drop: 192.60~192.90	

Table 2: Single Fiber 8CH Fixed OADM Card

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