

F-DMUX-16+1-2136

16 channel DWDM mux+demux with monitor ports and combined 1310 wideband / upgrade port



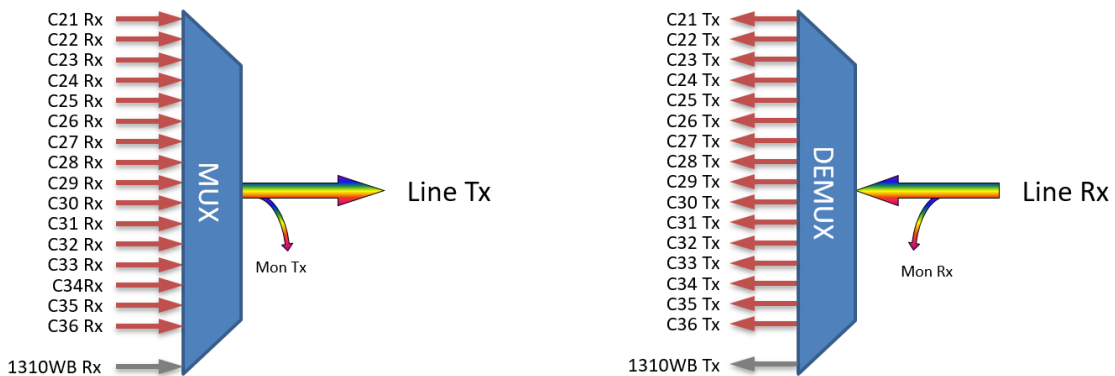
DESCRIPTION

This DWDM multiplexer/demultiplexer covers 16 DWDM channels in the C-band. Monitor ports ensures easy troubleshooting without downtime. The upgrade port enables the module to be used together with the F-DMUX-16-4560 to create a 32-channel DWDM system. Since the port covers the 1310 band it can also be used for legacy 1310 nm systems, 40/100GBASE-ER4 interfaces or a low-band CWDM multiplexer. The filter is mounted in a 19" rack module which can be retracted for enhanced protection of fiber connections and with a fiber organizer shelf.

FEATURES

- Dense WDM in compliance with ITU-T G.694.1
- 16-channel DWDM mux/demux, 100 GHz spacing
- 1% monitoring ports for Tx and Rx
- 1310 wideband / upgrade port for 16 additional DWDM channels, 40/100GBASE-ER4, low band CWDM or 1310 nm legacy systems
- Based on thin film optics with epoxy free optical path
- Protocol transparent (support 1G, 10G etc.)
- 19" rack module with adjustable brackets and removable fiber organizing shelf
- LC connectors

FUNCTIONAL DESCRIPTION



Ch. 21 = 192.1 THz = 1560.61 nm
 Ch. 22 = 192.2 THz = 1559.79 nm
 ⋮
 Ch. 36 = 193.6 THz = 1548,51 nm

TECHNICAL DATA

Parameter	Unit	Value
Max insertion loss (module / link)	dB	< 4.0 / < 5.0
Max insertion loss 1310 nm wideband port (module/link)	dB	< 1.5 / < 1.8
Channel spacing	GHz	100 (\approx 0.8 nm)
Center Wavelength Accuracy	nm	\pm 0.1
Channel Flatness	dB	< 0.4
Channel Passband (@ - 0.5 dB bandwidth) Min.	nm	0.22
Channel Uniformity	dB	< 1.5
Channel Ripple	dB	< 0.3
Adjacent channel isolation	dB	> 25
Non-adjacent channel isolation	dB	> 35
Directivity	dB	> 50
Return Loss	dB	> 45
Monitoring ports power level	dB	$P_{\text{Line port}} - 20$
1310 wideband port passband	nm	1260 - 1544
Wavelength thermal stability	nm/ $^{\circ}$ C	< 0.002
Insertion Loss thermal stability	dB/ $^{\circ}$ C	< 0.005
Power Handling	mW	< 300
Operating temperature	$^{\circ}$ C	0 to +70
Storage temperature	$^{\circ}$ C	-40 to +85

ORDERING INFORMATION

Product number	Description
F-DMUX-16+1-2136-MLU	Fiberworks 16+1 ch DWDM Mux+Demux, Lowband ITU ch. 21-36, 100 GHz, Upgrade & Mon.