

# F-D2MUX-16+1-2151

16 channel 800G DWDM mux+demux with monitor ports and 1310 wideband port



## DESCRIPTION

This DWDM multiplexer/demultiplexer covers 16 super-wide DWDM channels in the C-band with 200 GHz spacing. The extra-wide channels can accommodate signals up to 800G. Monitor ports ensures easy troubleshooting without downtime. The wideband port can 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, 200 GHz spacing
- Super-wide channels enables 800G signals with 16QAM encoding
- 1% monitoring ports for Tx and Rx
- 1310 wideband port for 40/100GBASE-ER4, low band CWDM or 1310 nm legacy systems
- Based on thin film optics with epoxy free optical path
- Protocol transparent (support 10G, 100G, 400G, 800G 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. 23 = 192.3 THz = 1558.98 nm  
 ⋮  
 Ch. 51 = 195.1 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	200 ( $\approx$ 1.6 nm)
Center Wavelength Accuracy	nm	$\pm$ 0.2
Channel Flatness	dB	< 0.4
Channel Passband (@ - 0.5 dB bandwidth) Min.	nm	> 0.5
Channel Passband (@ - 3.0 dB bandwidth)	nm	> 1.3
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 - 1460
Wavelength thermal stability	nm/°C	< 0.002
Insertion Loss thermal stability	dB/°C	< 0.005
Power Handling	mW	< 300
Operating temperature	°C	0 to +70
Storage temperature	°C	-40 to +85

**ORDERING INFORMATION**

Product number	Description
F-D2MUX-16+1-2151MLU	Fiberworks 16+1 ch 800G DWDM Mux+Demux ITU ch. 21-51, 200 GHz, 1310WB & Mon.