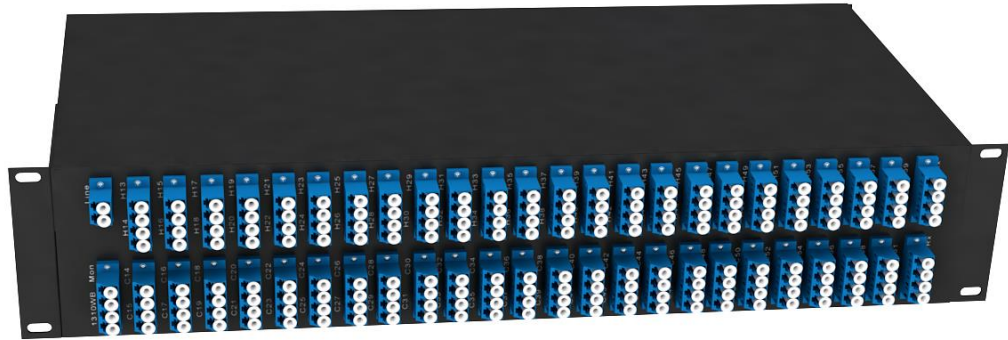


# F-DMUX-40+1-2160

96 channel DWDM mux+demux with monitor ports and combined 1310 wideband / OSC port



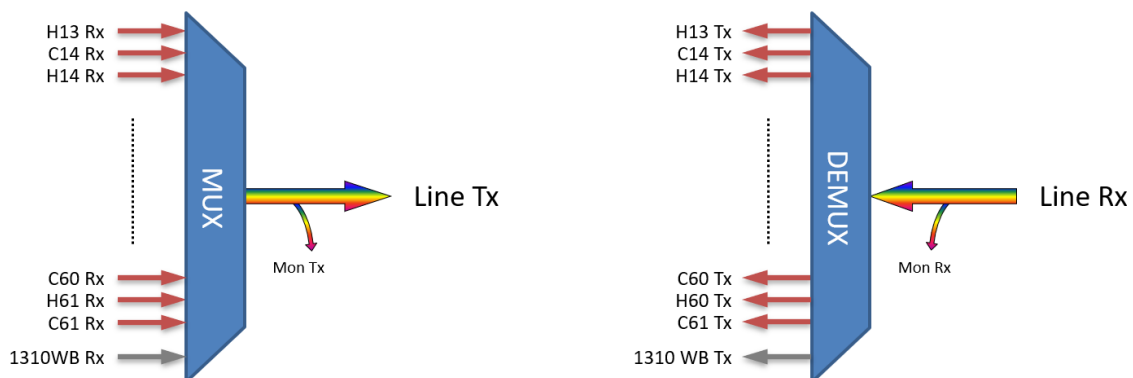
## DESCRIPTION

This DWDM multiplexer/demultiplexer covers 95 DWDM channels in the C-band. Monitor ports ensures easy troubleshooting without downtime. The upgrade/OSC port can be used for legacy 1310 nm systems, 40/100GBASE-ER4 interfaces, a low-band CWDM multiplexer or an OSC (Optical Supervisory Channel) on 1510 nm. The filter is mounted in a 19" 2RU rack module with LC/UPC connectors.

## FEATURES

- Dense WDM in compliance with ITU-T G.694.1
- 96-channel DWDM mux/demux, 50 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 Arrayed Waveguide Grating (AWG) with epoxy free optical path
- Protocol transparent (support 1G, 10G etc.)
- 19" rack module, 2RU height
- LC/UPC connectors

## FUNCTIONAL DESCRIPTION



Ch. H13 = 191.35 THz = 1566.72 nm  
 Ch. C14 = 191.40 THz = 1566.14 nm  
 ...  
 Ch. H60 = 196.05 THz = 1529.16 nm  
 Ch. C61 = 196.10 THz = 1528.77 nm

**TECHNICAL DATA**

Parameters	Units			
		Min	Typ	Max
Number of Channels			96	
Channel Spacing	GHz		50	
ITU Channels		H13		C61
Channel Center Wavelength	nm	1528.77		1566.72
Channel Center Frequency	THz	191.35		196.10
Clear Channel Passband	GHz		±6.25	
Wavelength Stability	nm		±0.05	
-1 dB /-1 dB Channel Bandwidth	nm	0.20		
-3 dB /-3 dB Channel Bandwidth	nm	0.28		
Channel Optical Insertion Loss at ITU grid	dB			12
Insertion loss 1310 nm wideband port	dB		0.9	1.5
1310 wideband port passband	nm	1260		1520
Monitoring Ports Insertion Loss	dB		20	
Adjacent Channel Isolation	dB	25		
Non-Adjacent, Channel Isolation	dB	30		
Insertion Loss Uniformity	dB		0.8	1.3
Optical Return loss	dB	45		
PDL in Clear Channel Band	dB		0.3	0.5
Polarization Mode Dispersion	ps			0.5
Maximum Optical Power	dBm			23
Operating temperature	°C	-5		65
Storage temperature	°C	-40		85

**ORDERING INFORMATION**

Product number	Description
F-DMUX-96+1-1361-MLU	Fiberworks 96+1 ch DWDM Mux+Demux 19" 2RU ITU ch. 13.5-61, 50 GHz, 1310WB, Monitor, LC/UPC