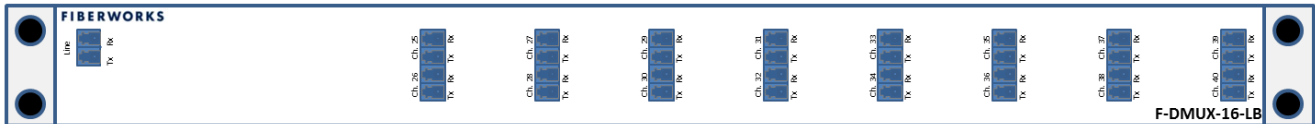


# F-DMUX+16

## 16 channel DWDM mux/demux



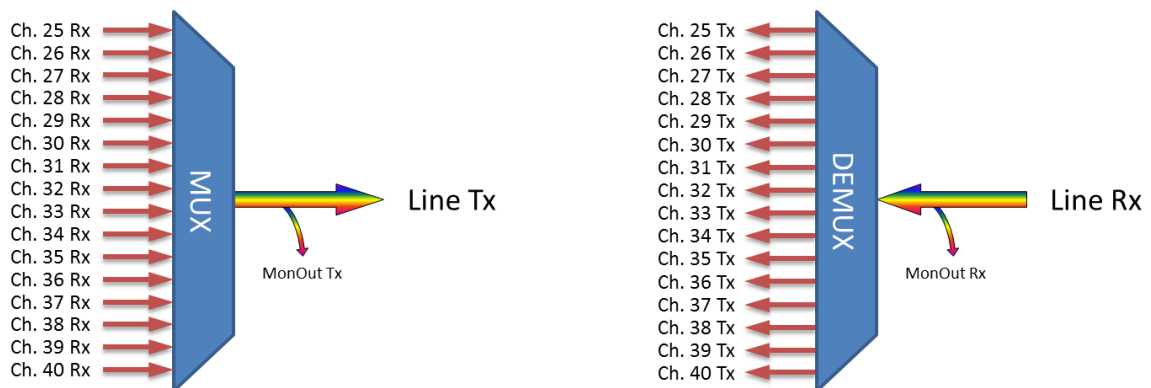
### DESCRIPTION

This compact DWDM multiplexer/demultiplexer covers 16 DWDM channels in the low frequency part of the C-band. Together with the F-DMUX-16+1-HB it creates a 32-channel DWDM system. It can also be used as a standalone DWDM mux/demux or as a CWDM expander as all 16 channels fit within any standard CWDM 1551 nm channel. The filter is mounted in a 19" rack module with can be retracted for enhanced protection of fiber connections.

### FEATURES

- Dense WDM in compliance with ITU-T G.694.1
- 16-channel DWDM mux/demux, 100 GHz spacing
- Can be used as standalone DWDM mux/demux or as part of a 32-channel system
- All channels fit within any standard 1551 nm CWDM channel
- Based on thin film optics with epoxy free optical path
- Protocol transparent (support 1G, 10G etc.)
- 19" rack module
- LC connectors

### FUNCTIONAL DESCRIPTION



Ch. 25 = 192.5 THz = 1557.36 nm  
 Ch. 26 = 192.6 THz = 1556.55 nm  
 ⋮  
 Ch. 40 = 194.0 THz = 1545.32 nm

**TECHNICAL DATA**

Parameter	Unit	Value
Max insertion loss (module / link)	dB	< 4.5 / < 6.0
Channel spacing	GHz	100 (≈ 0.8 nm)
Center Wavelength Accuracy	nm	± 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
Wavelength thermal stability	nm/°C	< 0.002
Insertion Loss thermal stability	dB/°C	< 0.005
Power Handling	mW	< 300
Operating temperature	°C	0 to +65
Storage temperature	°C	-40 to +85

**ORDERING INFORMATION**

Product number	Name	Description
F-DMUX-16-2540-LU	F-DMUX+16-LB	Fiberworks 16 ch. DWDM Mux/Demux, Low ITU ch. 25-40, 100 GHz, LC