

## Features:

- Low Optical Insertion Loss
- Cost-effective CWDM technology
- Mux/DeMux four Wavelengths
- Dual SC or LC connectors for interfacing
- Color Coded for ease of installation
- Reliable passive WDM optical technology
- Scales easily for ring networks
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- Compliance with RoHS

## CWDM MUX/DEMUX-4-EX Plug-in Module



The Finisar MUX/DEMUX-4-EX plug-in module is a passive optical multiplexer/demultiplexer designed for metro access applications that represents the state of the art in fiber optics design. The MUX/DEMUX-4-EX plug-in module multiplexes and demultiplexes four CWDM wavelength channels from a two-fiber circuit and passes the other channels. Finisar's design allows the creation of cost-effective unidirectional network traffic rings or point-to-point links.

Multiplexed wavelengths are interfaced to any of Finisar's CWDM transceivers on the equipment side. A grid of eight CWDM wavelengths is available from Finisar.

The MUX/DEMUX-4-EX plug-in module plugs into one half of a 1RU, 19" rack mount chassis for simple installation and modularity. This Chassis based system allows network equipment manufacturers to add WDM capability to any existing network device than supports GBIC and SFP interfaces.

Each equipment port of the MUX/DEMUX-4-EX plug-in module is color coded to match the wavelength of Finisar's CWDM transceiver. This allows ease of installation and troubleshooting without having to remove the transceiver from the local equipment.

The Finisar MUX/DEMUX plug-in module delivers dramatic cost savings to network equipment manufacturers, enabling them to develop metro access systems that are lower in cost, easier to provision and simpler to operate.

## CWDM MUX/DEMUX-4-EX Plug-in Module

### Specifications

#### Mechanical

##### Dimensions:

8.3" x 1.7" x 10.4",  
210mm x 43mm x 264mm,  
plug-in for 1RU rack-mount

##### Connectors:

- Network side: 1 dual SC/PC or LC/PC
- Equipment side: 4 dual SC/PC or LC/PC
- Expansion side: 1 dual SC/PC or LC/PC

#### Optical

##### Center Wavelengths:

MUX/DEMUX-4-EX Plug-in

- 1471 nm
- 1511 nm
- 1551 nm
- 1591 nm
- EX Port

##### Directivity:

≥ 55 dB

##### Return Loss:

≥ 45 dB

##### Passband Ripple:

≤ 0.5dB

##### PDL:

≤ 0.15dB

##### PMD:

≤ 0.2ps

##### Environmental:

- Operating 0 to 70°C
- Relative humidity: 10 to 85%, non-condensing
- Storage - 40 to 85°C

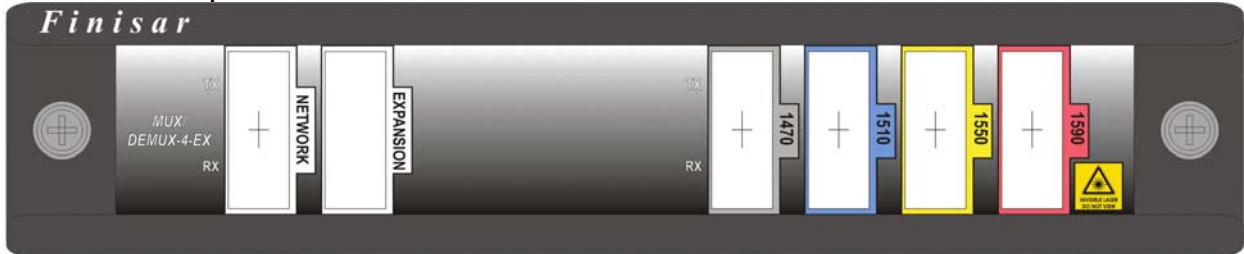
## MUX/DEMUX-4-EX Plug-in Module Parameter Specifications

Passband	Max Insertion Loss (dB)			Min Isolation (dB)		
	Mux	Demux	Ext	Mux	Demux	Ext
+/- 6.5nm	2.30	2.30	2.15	30	50	14

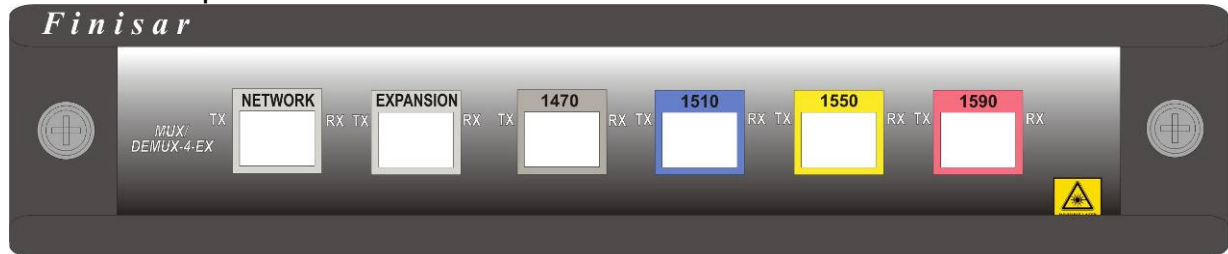
Note: Connector loss included

### Front Panel

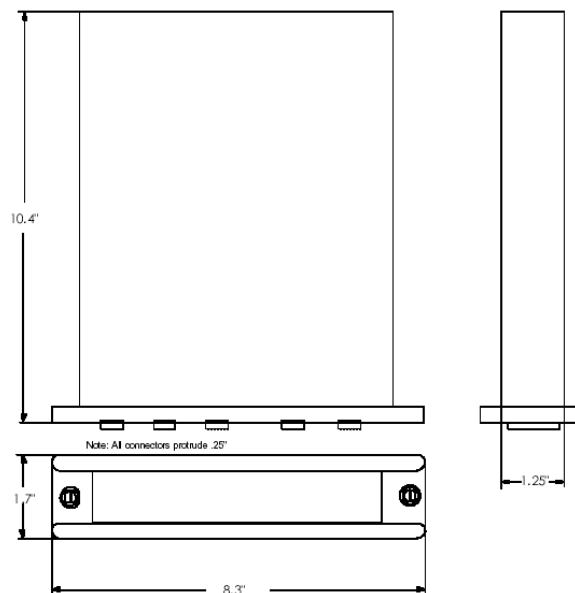
SC connector front panel



LC connector front panel



### Dimensions (Unit: inch)



## Ordering Information

### Part Number Description

- FWSF-M/D-4-EX Four Wavelengths MUX/DEMUX w/ Expansion Port Plug-in Module for FWSF-CHASSIS-2, 1471nm, 1511nm, 1551nm, 1591nm, SC connectors
- FWSF-M/D-4-EX-LC Four Wavelengths MUX/DEMUX w/ Expansion Port Plug-in Module for FWSF-CHASSIS-2, 1471nm, 1511nm, 1551nm, 1591nm, LC connectors