

Features:

- Low optical insertion loss
- Cost-effective CWDM technology
- Mux/DeMux four wavelengths
- SC connectors (LC version available)
- Color coded for easy installation
- Reliable passive WDM technology
- Scales easily for ring networks
- Low-profile modular design
- Fits in 1RU 19" rack mount chassis
- RoHS compliant

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



CWDM MUX/DEMUX-4-EX plug-in module is a passive optical multiplexer/demultiplexer designed to add CWDM wavelength channels to an existing backbone ring. The MUX/DEMUX multiplexes and demultiplexes four CWDM wavelengths from a two-fiber ring, going in opposite directions into a network. The module also includes an expansion port that allows adding more CWDM channels for future upgrade.

This MUX/DEMUX module plugs into one half of a 1RU, 19" rack mount chassis for simple installation and modularity. This Chassis based system offers network equipment manufacturers a more scalable and higher-density solution to add CWDM capability to their existing and new networks with simple pluggable interface.

Finisar's CWDM product 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 |

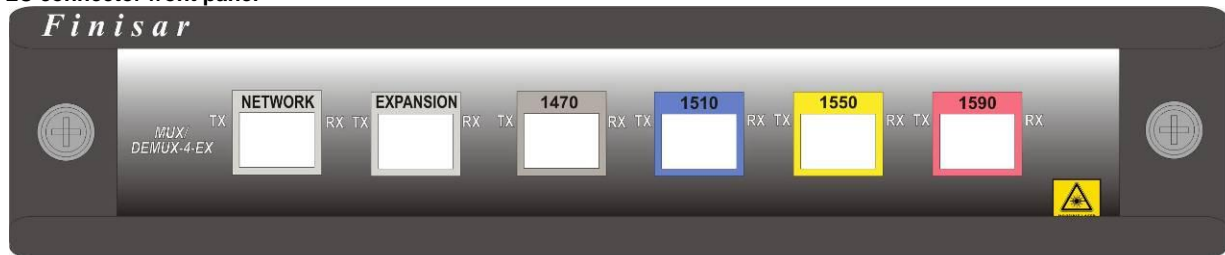
Note: Connector loss included

Front Panel

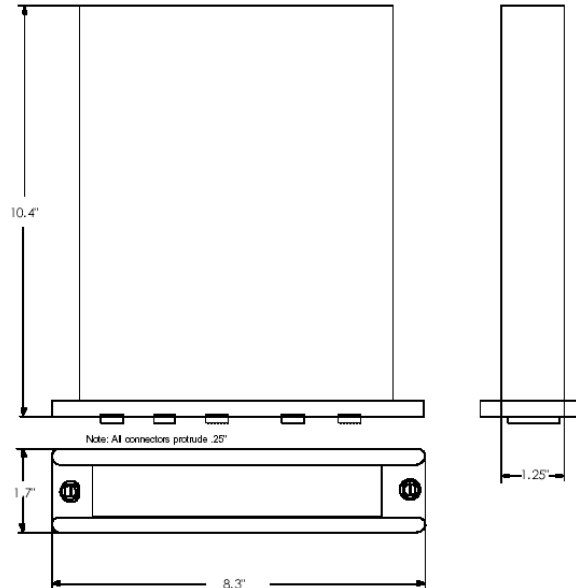
SC connector front panel



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 |