

## Features:

- Low optical insertion loss
- Cost-effective CWDM technology
- Adds/drops 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 OADM-4 Plug-in Module



OADM-4 plug-in module is a passive optical multiplexer /demultiplexer designed to add and drop CWDM channels to an existing backbone ring. The module multiplexes and demultiplexes four CWDM wavelengths from a two-fiber ring, going in opposite directions into a network (east/west).

This OADM 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 OADM 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.

## OADM-4 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: 2 dual SC/PC or LC/PC
- Equipment side: 4 dual SC/PC or LC/PC

#### Optical

##### Center wavelengths: (2 versions):

##### OADM-4-1 Plug-in

- 1471 nm
- 1511 nm
- 1551 nm
- 1591 nm

##### OADM-4-2 Plug-in

- 1491 nm
- 1531 nm
- 1571 nm
- 1611 nm

##### 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

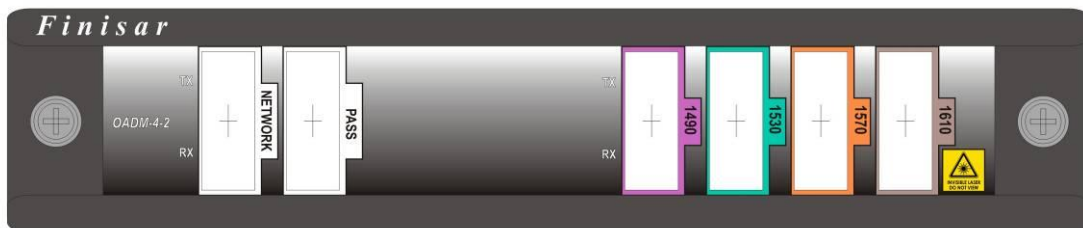
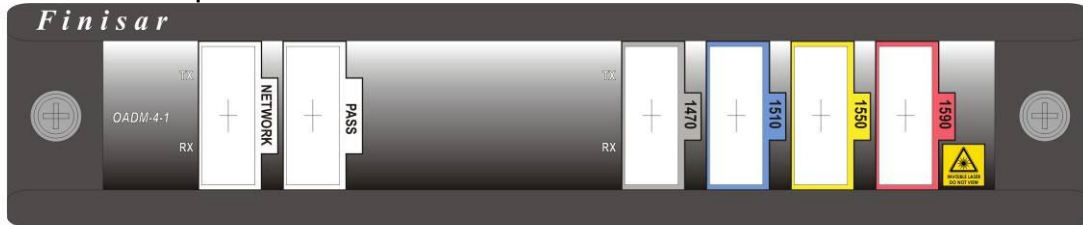
## OADM-4 Plug-in Module Parameter Specifications

| Passband  | Max Insertion Loss (dB) |      |      | Min Isolation (dB) |      |      |
|-----------|-------------------------|------|------|--------------------|------|------|
|           | Add                     | Drop | Pass | Add                | Drop | Pass |
| +/- 6.5nm | 2.30                    | 2.30 | 2.15 | 30                 | 50   | 14   |

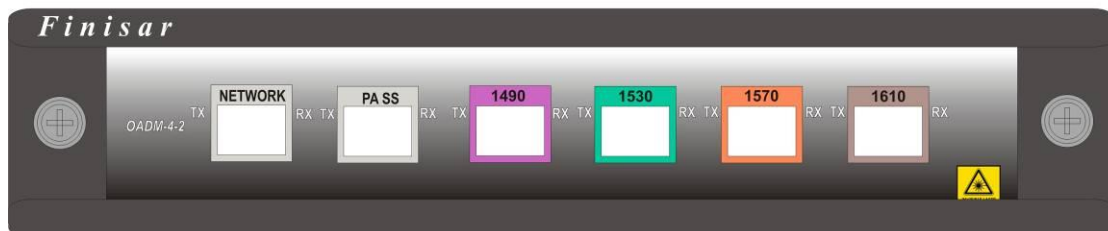
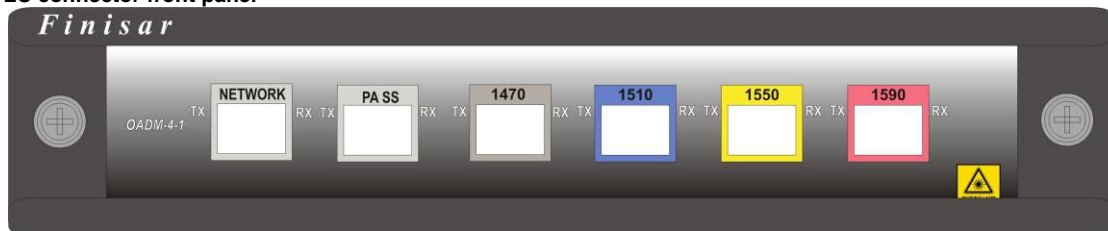
Note: Connector loss included

### Front Panel

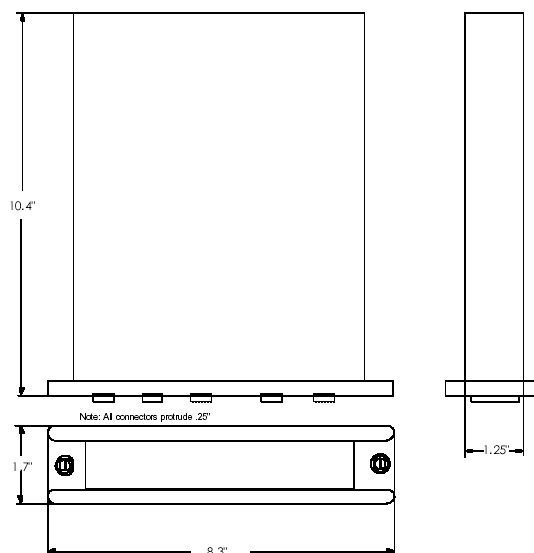
#### SC connector front panel



#### LC connector front panel



### Dimensions (Unit: inch)



## Ordering Information

### Part Number Description

|                  |  |
|------------------|--|
| FWSF-OADM-4-1    | 4 Wavelengths Add/Drop MUX (1471, 1511, 1551, 1591) Plug-in Module for FWSF-CHASSIS-2, SC connectors |
| FWSF-OADM-4-2    | 4 Wavelengths Add/Drop MUX (1491, 1531, 1571, 1611) Plug-in Module for FWSF-CHASSIS-2, SC connectors |
| FWSF-OADM-4-1-LC | 4 Wavelengths Add/Drop MUX (1471, 1511, 1551, 1591) Plug-in Module for FWSF-CHASSIS-2, LC connectors |
| FWSF-OADM-4-2-LC | 4 Wavelengths Add/Drop MUX (1491, 1531, 1571, 1611) Plug-in Module for FWSF-CHASSIS-2, LC connectors |