

# 8ch Dual Fiber 1270-1450nm (Skip 1390, 1410nm) CWDM Mux Demux

FMU Plug-in Module, LC/UPC

Data Center & Cloud Computing Infrastructure Solutions



## Overview

The CWDM Mux Demux support ITU-T G.694.2 wavelengths from 1270 to 1450nm (Skip 1390, 1410nm) in 20nm increments. It is a flexible plug-and play network solution that allows network operators to cost effectively implement point to point or ring based WDM optical networks.

The main fields of applications are the use in SDH (STM-1, STM-4, STM-16, STM- 64), IP (Fast Ethernet, Gigabit Ethernet, 10 Gigabit) ATM and storage (1G, 2G, 4G, 8G, 10G Fiber Channel) networks.

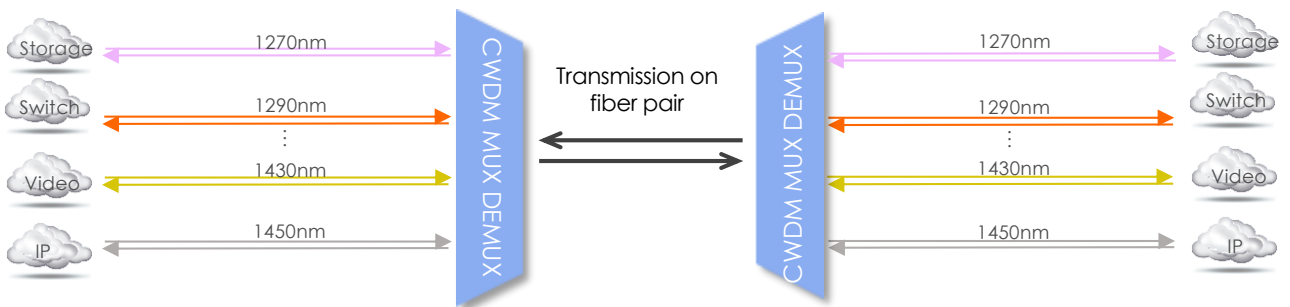
## Highlights

- Multiplexing of up to 8 channels on fiber pair
- Low insertion loss
- Low-profile modular design, fits in FMU 2-slot 1U chassis
- Duplex LC/UPC, easily support duplex patch cables between transceiver and passive unit
- Compliant to ITU-T G.694.2 standard
- Standard 8-channel CWDM band 1270-1450nm (Skip 1390, 1410nm), 20 nm spacing
- Based on thin-film filter technology
- Passive, no electric power required. (MTBF ca. 500 years)

## General Specification

Front View	Function
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42937



## Technical Data

Parameter	Value
Center Wavelength	1270nm, 1290nm, 1310nm, 1330nm, 1350nm, 1370nm, 1430nm, 1450nm
Channel Spacing	20nm
Channel Passband	$\pm 6.5\text{nm}$
Insertion Loss (passband)	$\leq 3.0\text{dB}$
Adjacent Channel Isolation	$\geq 30\text{dB}$
Non-adjacent Channel Isolation	$\geq 40\text{dB}$
Technology	TFF (Thin Film Filter)
Passband Ripple	$\leq 0.3\text{dB}$
PDL	$\leq 0.3\text{dB}$
Return Loss	$\geq 45\text{dB}$
Directivity	$\geq 50\text{dB}$
PMD	$\leq 0.1\text{ps}$
Power Handling	$\leq 500\text{mW}$
Operating Temperature	-40 ~ +85 ° C
Storage Temperature	-40 ~ +85 ° C
Fiber Type	G657 A1
Connector Type	LC/UPC Connector
Warranty	3 years warranty with free technical support
Dimensions (H x W x D)	1.73"x8.35"x10.04" (44x212x255mm)

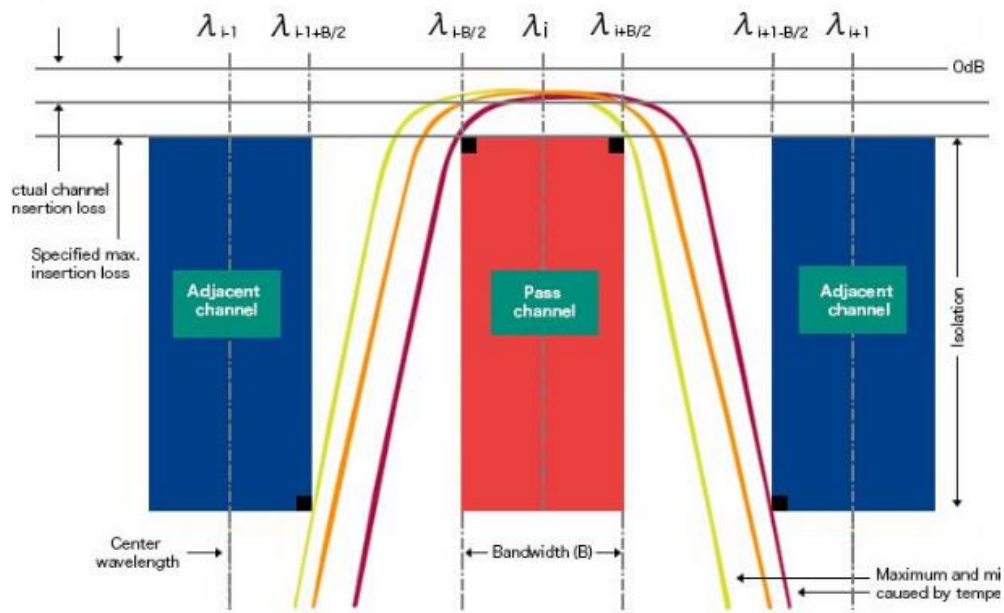
### Notes:

1.Specified with connectors and adapters.

## FS.COM Quality Assurance by Using High-quality CWDM Multiplexers

Our components fulfill or exceed standard market specifications for optical components. It may still not be entirely obvious how different parameters like isolation are more closely defined. The following diagram illustrates the most important parameters, following the "red box model", in accordance with ITU. The channel, including its bandwidth and isolation as defined by the component specifications, delineates a box.

The measured transmission spectrum of each channel has to be above the box. Under no circumstances can it interfere with any neighboring box (channel). Therefore, isolation and insertion losses have to be maintained within the borders set out by the defined center wavelengths and bandwidth.



### CWDM Mux Demux Series

Application	ID#	Description
<b>WHOLE BAND (1270-1610NM)</b>		
Whole band (1270-1610nm)	<a href="#">#33489</a>	18 Channels 1270-1610nm, with Monitor Port, LC/UPC, Dual Fiber CWDM Mux Demux, FMU 1U Rack Mount
<b>HIGH BAND (1470-1610NM)</b>		
High band (1470-1610nm)	<a href="#">#78163</a>	8 Channels 1470-1610nm, with Monitor and Expansion Port, LC/UPC, Dual Fiber Low Insertion Loss CWDM Mux Demux, FMU Plug-in Module

## LOW BAND (1270-1450NM)

Low band (1270-1450nm)	<a href="#">#42937</a>	8 Channels 1270-1450nm (Skip 1390, 1410nm), LC/UPC, Dual Fiber CWDM Mux Demux, FMU Plug-in Module
Low band (1270-1450nm)	<a href="#">#42972</a>	4 Channels 1270-1330nm, LC/UPC, Dual Fiber Low Insertion Loss CWDM Mux Demux, FMU Plug-in Module

## SINGLE FIBER

Single fiber	<a href="#">#43711</a>	9 Channels 1270-1590nm, LC/UPC, Single Fiber CWDM Mux Demux, Side-A, Plug-in Module, used together with ID#43699
Single fiber	<a href="#">#43699</a>	9 Channels 1290-1610nm, LC/UPC, Single Fiber CWDM Mux Demux, Side-B, Plug-in Module, used together with ID#43711

\*Standard products are listed above. Customized specifications are available upon request.



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