

# 40ch C21-C60 DWDM Mux Demux + Monitor Port

M6200 Series Pluggable Module, LC/UPC  
Data Center & Cloud Computing Infrastructure Solutions



## Description

The 40ch Mux Demux is a passive optical module based on AAWG Gaussian technology, which multiplexes several streams of signals over a single fiber using different wavelengths to expand the capacity of existing fibers without investing large amounts of money.

It can be highly integrated with M6200 series management platform and M6200 series EDFA/DCM/OLP products to improve the manageability and interconnectivity of the CWDM/DWDM Network.

## Features

- Low insertion loss, high isolation density
- Multiplexing of 40 channels on fiber pair
- 1% monitor port for easy troubleshooting without downtime
- Compliant to ITU G.694.1, 100GHz ITU grid, 0.8 nm spacing
- Based on AAWG technology with Gaussian shaped pass bands
- Separate Mux and Demux design for integrating with M6200 series managed chassis

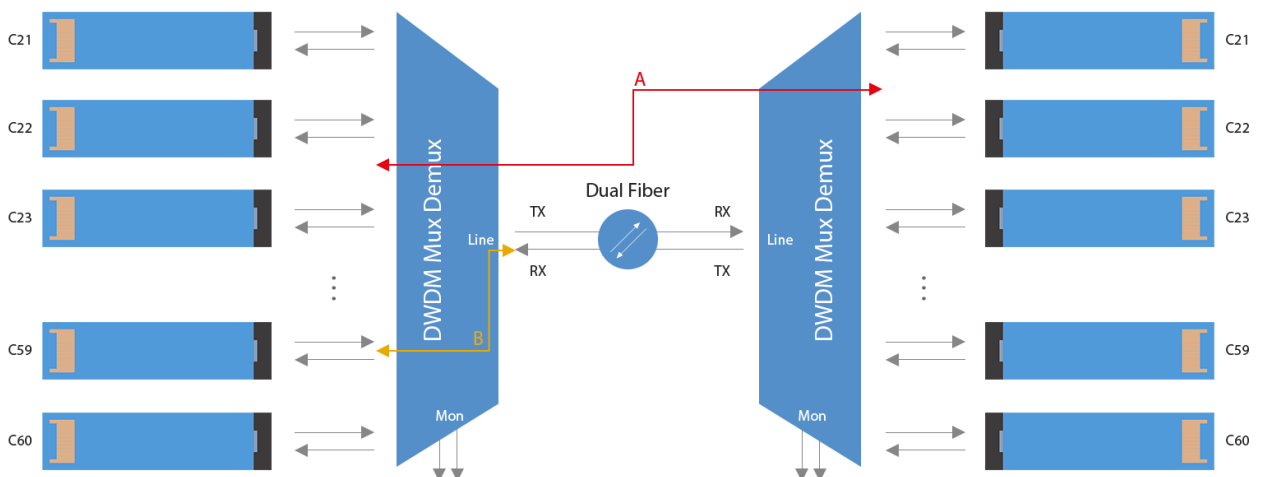
## Application

- Metro, regional and long haul WDM networks
- Point to point, linear, ring, star and mesh topologies

## General Specification

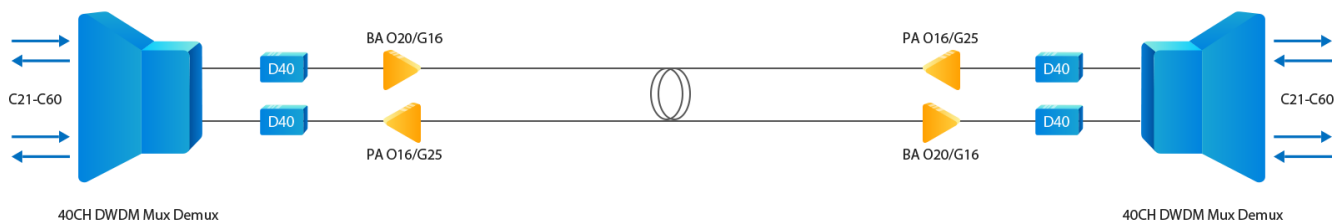
Parameter	Value
ITU Channel	40 channels C21-C60
Operating Wavelength	1520-1570nm
Channel Spacing	100GHz (0.8nm)
Channel Passband	$\pm 0.11\text{nm}$
Link Loss (A)	$\leq 12.0\text{dB}$
Insertion Loss (B)	$\leq 6.0\text{dB}$ , 5.5dB typical
Insertion Loss (1% Mon)	$\leq 26\text{dB}$
Filter Technology	AAWG (Gaussian)
Non-adjacent Channel Isolation	$\geq 30\text{dB}$
Adjacent Channel Isolation	$\geq 25\text{dB}$
Return Loss	$\geq 40\text{dB}$
Directivity	$\geq 50\text{dB}$
Polarization Dependent Loss	$\leq 0.5\text{dB}$
Polarization Mode Dispersion	$\leq 0.5\text{ps}$
Operating Temperature	-10 to 50° C
Storage Temperature	-20 to 85° C

## Transmission Diagram



## Application for DWDM Solution

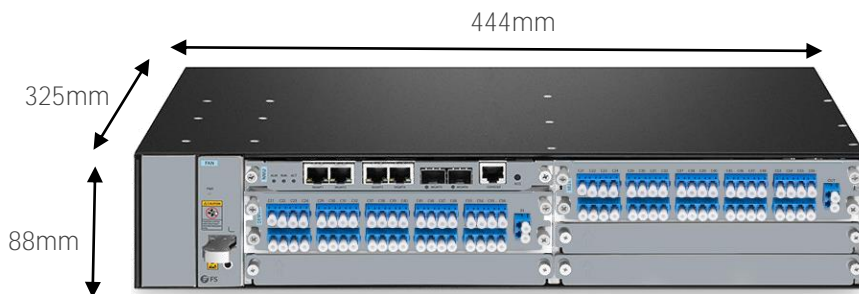
The 40ch DWDM Mux Demux adopts high quality AAWG Gaussian technology, which can achieve a long distance transmission in a point-to-point network by using EDFA and DCM.



## Matching Chassis

DWDM Mux Demux pluggable module occupies four slots in M6200 series managed chassis.

- Width: 444mm (17.48")
- Height: 88mm (3.46")
- Depth: 325mm (12.80")



## ITU Channel Guiding

ITU Channel (xx or yy)	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Wavelength (nm)	1560.61	1559.79	1558.98	1558.17	1557.36	1556.55	1555.75	1554.94	1554.13	1553.33	1552.52	1551.72	1550.92	1550.12	1549.32	1548.51	1547.72	1546.92	1546.12	1545.32

ITU Channel (xx or yy)	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Wavelength (nm)	1544.53	1543.73	1542.94	1542.14	1541.35	1540.56	1539.77	1538.98	1538.19	1537.40	1536.61	1535.82	1535.04	1534.25	1533.47	1532.68	1531.90	1531.12	1530.33	1529.55

## Ordering Information

ID	Description
<a href="#">#107366</a>	20dBm Output Optical Booster Pluggable Module, 16dB Gain, LC/UPC
<a href="#">#107367</a>	25dB Gain Optical Pre-Amplifier Pluggable Module, 16dBm Output, LC/UPC
<a href="#">#107368</a>	1+1 Optical Line Protection Switch (OLP), LC/UPC
<a href="#">#109705</a>	40 Channels C21-C60 Dual Fiber DWDM Mux Demux with Monitor Port, Pluggable Module, LC/UPC
<a href="#">#107370</a>	40KM DCF-based Passive Dispersion Compensation Module, LC/UPC
<a href="#">#107365</a>	5 Channels Multi-Rate WDM Converter (Transponder), 10 SFP/SFP+ Slots, 100Mbps to 11.1Gbps Rate
<a href="#">#107373</a>	SFP Variable Optical Attenuator Module for M6200 Series DWDM EDFA
<a href="#">#107371</a>	M6200 Series 2U Managed Chassis Unloaded, Supports up to 7x EDFA/OEO/OLP Module with Accessories
<a href="#">#111052</a>	M6200 Series 5U Managed Chassis Unloaded, Supports up to 15x MUX/OEO/EDFA/DCM/OLP Module with Accessories
<a href="#">#31238</a>	Cisco C21 DWDM-SFP10G-60.61 Compatible 10G DWDM SFP+ 1560.61nm 80km DOM Transceiver Module
<a href="#">#54146</a>	Cisco C21 DWDM-SFP-6061 Compatible 1000BASE-DWDM SFP 100GHz 1560.61nm 100km DOM Transceiver Module
<a href="#">#87004</a>	Cisco C21 DWDM-SFP25G-60.61 Compatible 25G DWDM SFP28 100GHz 1560.61nm 10km DOM Optical Transceiver Module

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



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