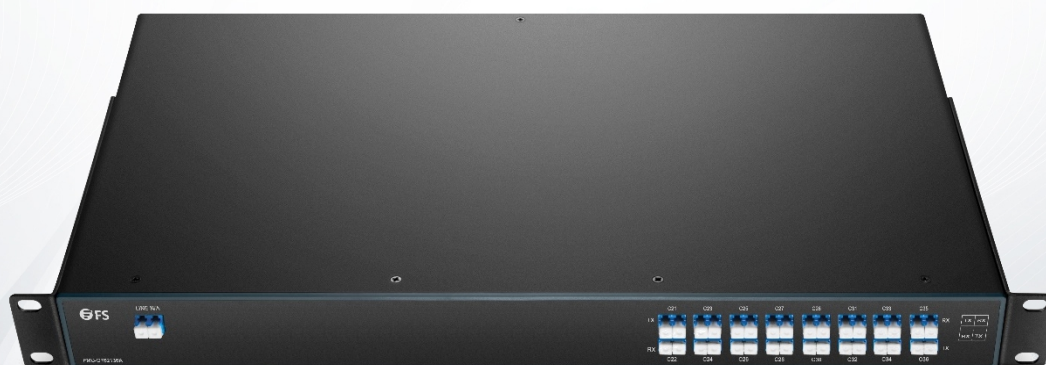


16ch C21-C36 Single Fiber DWDM Mux Demux, Side-A

1U Rack Mount, LC/UPC

Data Center & Cloud Computing Infrastructure Solutions



Overview

The 16ch Mux Demux is a high density, low loss and standalone passive optical module that provides excellent solution for infrastructure savings by aggregating all 16 DWDM channels at a single site. It uses the 16 DWDM ITU grids being used in each direction

Our DWDM Mux Demux are modular, scalable and are perfectly suited to transport PDH, SDH / SONET, ETHERNET services over WWDM, CWDM and DWDM in optical metro edge and access networks

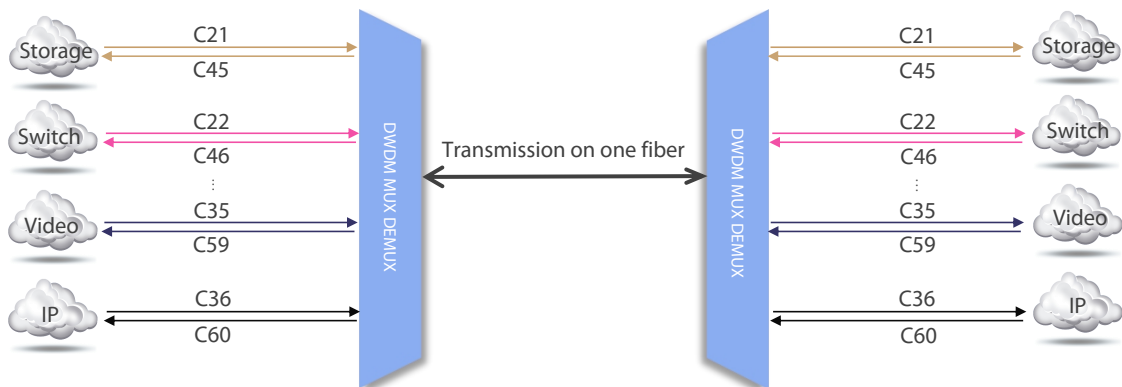
Highlights

- 16 bi-directional channels using standard 32 channels DWDM ITU grid C21 - C36
- Low insertion loss
- 1U 19" low profile modular design
- LC/UPC duplex connectors
- Directly connection with DWDM Splitter Red/Blue C Band Filter
- Compliant to ITU G.694.1, 100GHz ITU grid, 0.8 nm spacing
- Based on a-athermal AWG technology with Gaussian shaped pass bands
- Passive, no electricity needed (MTBF ca. 500 years)

General Specification

Front View	Function
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78535



The DWDM transceivers should have the same wavelength as the transmit wavelength of the client port.

Technical Data

Parameter	Value
ITU Channel (Tx/Rx)	C45/C21,C46/C22,C47/C23,C48/C24, C49/C25,C50/C26,C51/C27,C52/C28, C53/C29,C54/C30,C55/C31,C56/C32, C57/C33,C58/C34,C59/C35,C60/C36
Operating Wavelength	1548.51-1560.61nm
Channel Spacing	100GHz (0.8nm)
Channel Passband	±0.11nm
Center Wavelength Accuracy	±0.05nm
Insertion Loss	≤ 4.8dB
Adjacent Channel Isolation	≥ 25dB
Non-adjacent Channel Isolation	≥ 29dB
Filter Technology	AAWG (Gaussian)
Passband Ripple	≤ 1.5dB
Return Loss	≥ 40dB
Directivity	≥ 40dB
Polarzation Dependent Loss	≤ 0.7dB
Polarization Mode Dispersion	≤ 0.5ps
Power Handling	≤ 300mW
Operating Temperature	-5° C~ +65° C
Storage Temperature	-40° C~ +85° C

Notes:

1. Specified with connectors and adapters.

High Quality DWDM Transceivers to Build a Passive DWDM System

FS.COM offers DWDM transceiver modules in SFP, SFP+ and XFP formats. Every optics is tested in real switches and full compatible with Cisco, Juniper, Arista, Brocade, Dell, Extreme, etc.

Transmission distances range from 20-120km for Gigabit speeds, and 40-120km for 10 Gigabit speeds, without the use of optical amplifiers.



DWDM-SFP10G-80



DWDM-XFP10G-80



DWDM-Tunable-XFP



DWDM-Tunable-SFP+



DWDM-SFP1G-ZX

DWDM Mux Demux Series

Application	ID#	Description
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40/16/8 CHANNELS DUAL FIBER

40 channels	#35887	40ch. DWDM Mux Demux, 100GHz, C21-C60, with monitor port and 1310nm port, 3.5dB typical IL, 5.0dB max IL, duplex LC/UPC
16 channels	#72430	16ch. DWDM Mux Demux, 100GHz, C21-C36, with monitor port, expansion port and 1310nm port, IL ≤ 5.2dB, duplex LC/UPC
16 channels	#26569	16ch. DWDM Mux Demux, 100GHz, C27-C42, IL ≤ 4.6dB, duplex LC/UPC
16 channels	#57884	16ch. DWDM Mux Demux, 100GHz, C43-C58, with expansion port, IL ≤ 4.6dB, duplex LC/UPC
8 channels	#30568	8ch. DWDM Mux Demux, 100GHz, C53-C60, with expansion port, IL ≤ 3.2dB, duplex LC/UPC
8 channels	#72433	8ch. DWDM Mux Demux, 100GHz, C53-C60, with Monitor Port, Expansion Port and 1310nm Port, IL ≤ 3.7dB, duplex LC/UPC

16/8 CHANNELS SINGLE FIBER

16 channels	#78535	16ch. DWDM Mux Demux, 100GHz, C21-C36 for transceiver wavelengths, IL ≤ 4.3dB, LC/UPC
16 channels	#78536	16ch. DWDM Mux Demux, 100GHz, C45-C60 for transceiver wavelengths, IL ≤ 4.3dB, LC/UPC
8 channels	#50116	8ch. DWDM Mux Demux, 100GHz, C22-C36 for transceiver wavelengths, with expansion port, IL ≤ 4.6dB, LC/UPC
8 channels	#50117	8ch. DWDM Mux Demux, 100GHz, C21-C35 for transceiver wavelengths, with expansion port, IL ≤ 4.6dB, LC/UPC

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

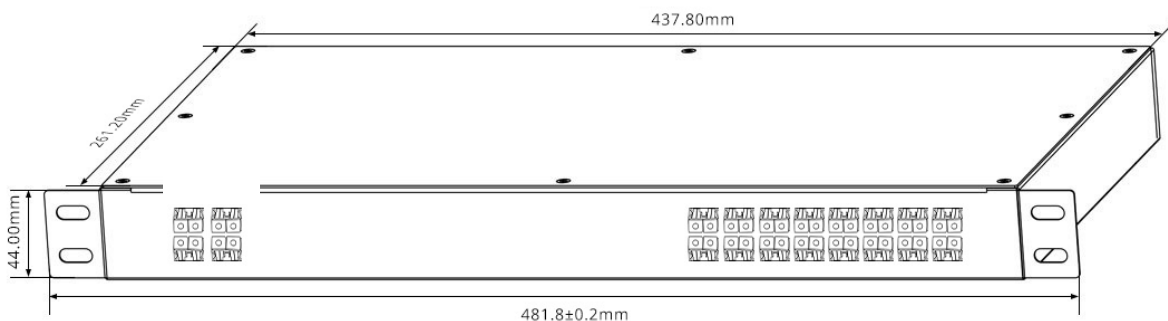
ITU Channel Guiding

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

Layout and Dimensions

- Width: 481.8 ± 0.2mm (19")
- Height: 44mm (1.73")
- Depth: 261.2mm (10.28")
- The color of the module is black
- All fonts and labels are printed in black





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