

8ch C21-C35 Single Fiber DWDM Mux Demux + Expansion Port, Side-A

FMU Plug-in Module, LC/UPC

Data Center & Cloud Computing Infrastructure Solutions



Overview

These compact DWDM Mux Demux work in a pair to provide 8 bidirectional channels on a single strand of fiber. They use the 8 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.

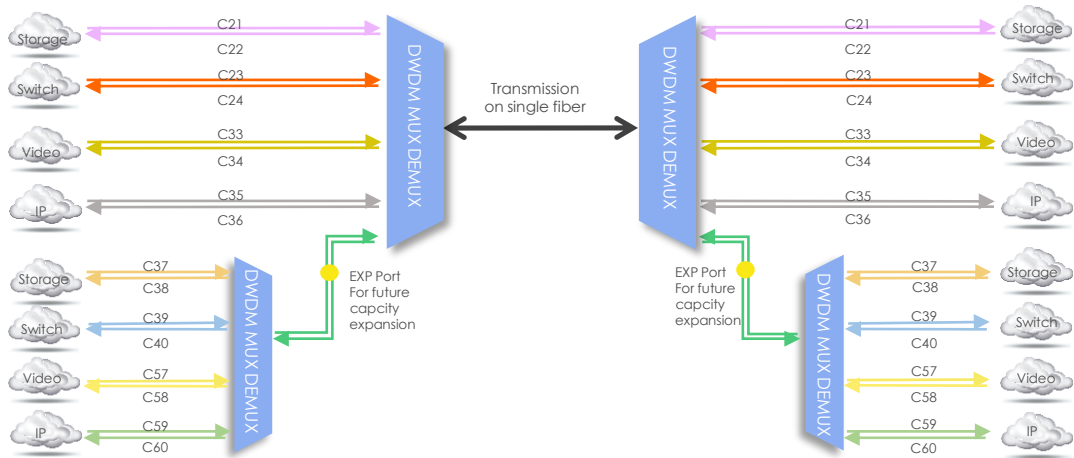
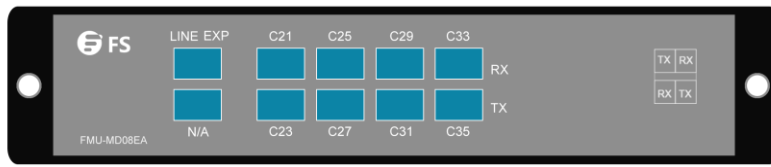
Highlights

- 8 bi-directional channels using standard 16 channels DWDM ITU grid C21 - C35
- Low insertion loss
- Low-profile modular design, fits in FMU 2-slot 1U chassis
- LC/UPC duplex connectors
- Expansion port for future capacity expansion
- Compliant to ITU G.694.1, 100GHz ITU grid, 0.8 nm spacing
- High quality thin film filter technology
- Passive, no electricity needed (MTBF ca. 500 years)

General Specification

Front View	Function
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50117



Notes:

1. Single fiber bi-directional transmission should be used in pairs, Mux/Demux port for specific wavelength must be opposite.

Technical Data

Parameter	Value
ITU Channel (Tx/Rx)	C22/C21,C24/C23,C26/C25,C28/C27, C30/C29,C32/C31,C34/C33,C36/C35
Operating Wavelength	1549.32-1560.61nm
Channel Spacing	100GHz (0.8nm)
Channel Passband	±0.11nm
Center Wavelength Accuracy	±0.05nm
Insertion Loss	≤ 4.6dB
Insertion Loss (Exp port)	≤ 4.6dB
Adjacent Channel Isolation	≥ 30dB
Non-adjacent Channel Isolation	≥ 40dB
Filter Technology	TFF (Thin Film Filter)
Passband Ripple	≤0.5dB
Return Loss	≥ 45dB
Directivity	≥ 45dB
Polarization Dependent Loss	≤ 0.3dB
Polarization Mode Dispersion	≤ 0.1ps
Power Handling	≤ 500mW
Operating Temperature	-40° C ~ +85° 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+, XFP, Xenpak and X2 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	#33485	40ch. DWDM Mux Demux, 100GHz, C21-C60, with monitor port, 3.0dB typical IL, 4.5dB max IL, duplex LC/UPC
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
40 channels	#79580	Flat-top 40ch. DWDM Mux Demux, 100GHz, C21-C60, 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.

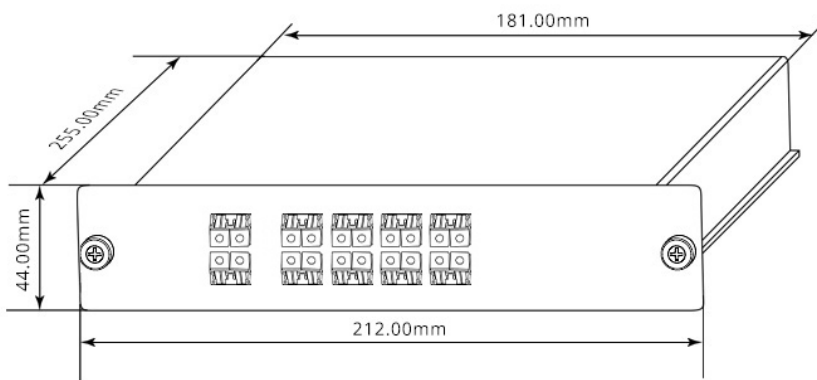
ITU Channel Guiding

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: 212.00mm (8.35")
- Height: 44.00mm (1.73")
- Depth: 255.00mm (10.04")
- The color of the module is black
- All fonts and labels are printed in black





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