

16ch C43-C58 DWDM Mux Demux + Expansion Port

1U Rack Mount, LC/UPC

Data Center & Cloud Computing Infrastructure Solutions



Overview

The DWDM passive Mux Demux modules deliver the benefits of a Dense Wave Division Multiplexer in a fully passive solution. They are designed for long-haul transmission where wavelengths are packed tightly together over the C-band range of wavelengths, up to 48 wavelengths in 100GHz grid(0.8nm) and 96 wavelengths in 50GHz grid(0.4nm). ITU G.694.1 standard and Telcordia GR1221, GR1209, CE, RoHS, FCC are compliant.

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.

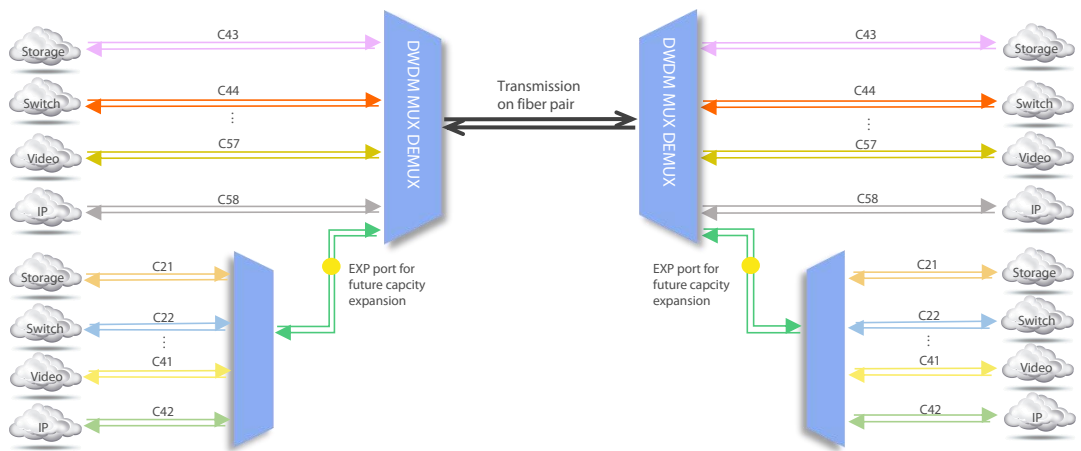
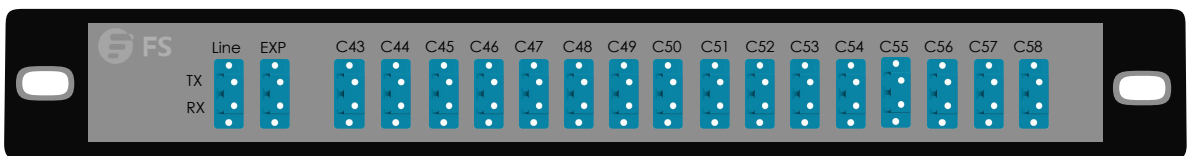
Highlights

- Multiplexing of 16 channels on fiber pair
- Low insertion loss
- 1U 19" low profile modular design
- LC/UPC 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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57884



Technical Data

Parameter	Value
ITU Channel	16 channels C43-C58 (DWDM ports)
Operating Wavelength	1531.12-1542.94 nm
Channel Spacing	100 GHz (0.8 nm)
Channel Passband	± 0.1 nm
Insertion Loss	≤ 4.6 dB
Insertion Loss (Exp port)	≤ 4.3 dB
Adjacent Channel Isolation	≥ 30 dB
Non-adjacent Channel Isolation	≥ 35 dB
Filter Technology	TFF (Thin Film Filter)
Return Loss	≥ 45 dB
Directivity	≥ 50 dB
Polarization Dependent Loss	≤ 0.2 dB
Polarization Mode Dispersion	≤ 0.1 ps
Power Handling	≤ 300 mW
Operating Temperature	-5° C ~ +75° 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 20-120 km 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
40/16/8 CHANNELS DUAL FIBER		
40 channels	33485	40 ch. DWDM Mux Demux, 100GHz, C21-C60, with monitor port, 3.0dB typical IL, 4.5dB max IL, duplex LC/UPC
40 channels	35887	40 ch. 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	16 ch. DWDM Mux Demux, 100GHz, C21-C36, with monitor port, expansion port and 1310nm port, IL ≤ 5.2dB, duplex LC/UPC
16 channels	26569	16 ch. DWDM Mux Demux, 100GHz, C27-C42, IL ≤ 4.6dB, duplex LC/UPC
16 channels	57884	16 ch. DWDM Mux Demux, 100GHz, C43-C58, with expansion port, IL ≤ 4.6dB, duplex LC/UPC
8 channels	30568	8 ch. DWDM Mux Demux, 100GHz, C53-C60, with expansion port, IL ≤ 3.2dB, duplex LC/UPC
8 channels	72433	8 ch. DWDM Mux Demux, 100GHz, C53-C60, with Monitor Port, Expansion Port and 1310nm Port, IL ≤ 3.7dB, duplex LC/UPC

8 CHANNELS SINGLE FIBER

8 channels	50116	8 ch. DWDM Mux Demux, 100GHz, C22-C36 for transceiver wavelengths, with expansion port, IL ≤ 4.6dB, LC/UPC
8 channels	50117	8 ch. 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.

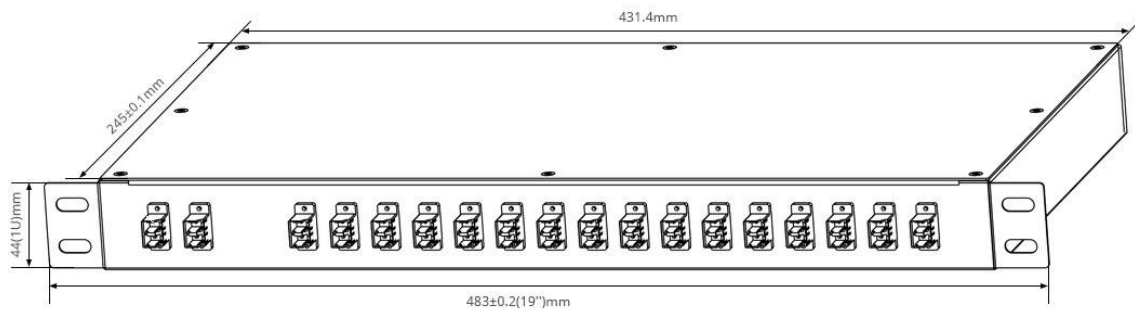
ITU Channel Guiding

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 lables are printed in black





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All statements, technical information, and recommendations related to the products here are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. Please contact FS for more information.