

88 Channels DWDM MUX and DEMUX



Description:

Fibernet rack-mounted DWDM MUX and DEMUX provide excellent solution for infrastructure savings by aggregating up to 88 different wavelengths onto a single fiber. These 1U products are protocol transparent and completely passive, therefore can be used also in non-powered intermediate locations in a DWDM networks. All 88 channels are spread over the C-band per ITU-T 50GHz spacing between channels using high quality AWG Flat Top technology. Different starting channel options are possible with standard channels starting from 1530.334nm and ending with 1565.87nm.

Features:

- > Low IL
- > High Reliability and Stability
- > Compact 1U design
- > Flat Top filter shape
- > Telcordia GR-1221/1029 and RoHS compliant

Benefits:

- > Saves OPEX and CAPEX
- > Simplifies network cabling
- > No need for power

Applications:

- > DWDM Networks
- > Fiber savings

Specifications and Dimensions:

Parameter	Value	
Number of Channels	88	
Channel Spacing	50GHz	
ITU Frequency	195.9-191.55 THz	
Operating wavelength	1530.334nm (channel 59 for 100GHz) to 1565.087nm (channel 15 for 100GHz)	
Wavelength Accuracy	+/-50pm	
ITU Band	+/-6.25GHz	
Insertion Loss	≤6.5dB	
Insertion Loss Uniformity	≤ 1.5 dB	
1dB Passband	0.2nm	
3dB Passband	0.28nm	
Adjacent Channel Isolation	≥24 dB	
Non-Adjacent Channel Isolation	≥28 dB	
Total Crosstalk	20 dB	
Return Loss	≥40 dB	
Chromatic Dispersion	+/-25ps/nm	
Polarization dependent loss	0.5ps	
Input Optical Power	250mW	
Connector form	LC/UPC	
Operating Temperature	-5~+65 °C	
Storage Temperature	-40~+85 °C	
Relative Humidity	90 %	
Dimensions	MUX	1U rack 483 × 273 × 43mm
	DEMUX	1U rack 483 × 273 × 43mm
	MUX+DEMUX	2U rack 441.5 × 251 × 86.8mm

Channel Frequencies and Wavelengths (ITU Frequencies):

Chl #	Channel Frequency (THz)	Channel Wavelength (nm)	Chl #	Channel Frequency (THz)	Channel Wavelength (nm)
01	195.9	1530.334	02	195.85	1530.725
03	195.8	1531.116	04	195.75	1531.507
05	195.7	1531.898	06	195.65	1532.290
07	195.6	1532.681	08	195.55	1533.073
09	195.5	1533.465	10	195.45	1533.858
11	195.4	1534.250	12	195.35	1534.643
13	195.3	1535.036	14	195.25	1535.429
15	195.2	1535.822	16	195.15	1536.216
17	195.1	1536.609	18	195.05	1537.003
19	195	1537.397	20	194.95	1537.792
21	194.9	1538.186	22	194.85	1538.581
23	194.8	1538.976	24	194.75	1539.371
25	194.7	1539.766	26	194.65	1540.162
27	194.6	1540.557	28	194.55	1540.953
29	194.5	1541.349	30	194.45	1541.746
31	194.4	1542.142	32	194.35	1542.539
33	194.3	1542.936	34	194.25	1543.333
35	194.2	1543.730	36	194.15	1544.128
37	194.1	1544.526	38	194.05	1544.924
39	194	1545.322	40	193.95	1545.720
41	193.9	1546.119	42	193.85	1546.518
43	193.8	1546.917	44	193.75	1547.316
45	193.7	1547.715	46	193.65	1548.115
47	193.6	1548.515	48	193.55	1548.915
49	193.5	1549.315	50	193.45	1549.715
51	193.4	1550.116	52	193.35	1550.517
53	193.3	1550.918	54	193.25	1551.319
55	193.2	1551.721	56	193.15	1552.122
57	193.1	1552.524	58	193.05	1552.926
59	193	1553.329	60	192.95	1553.731
61	192.9	1554.134	62	192.85	1554.537
63	192.8	1554.940	64	192.75	1555.343
65	192.7	1555.747	66	192.65	1556.151
67	192.6	1556.555	68	192.55	1556.959
69	192.5	1557.363	70	192.45	1557.768
71	192.4	1558.173	72	192.35	1558.578
73	192.3	1558.983	74	192.25	1559.389
75	192.2	1559.794	76	192.15	1560.200
77	192.1	1560.606	78	192.05	1561.013
79	192	1561.419	80	191.95	1561.826
81	191.9	1562.233	82	191.85	1562.640
83	191.8	1563.047	84	191.75	1563.455
85	191.7	1563.863	86	191.65	1564.271
87	191.6	1564.679	88	191.55	1565.087

Ordering Information:

FHAR-MUX88-LC - DWDM MUX for 88 Channels of 50GHz LC 1U

FHAR-DEMUX88-LC - DWDM DEMUX for 88 Channels of 50GHz LC 1U

FHAR-DWDM-50G-2U - DWDM MUX+DEMUX for 88 Channels of 50GHz LC 2U