

C-DWDM-HPMUXDR40M-21-60-I
40 Channel HP DWDM Mux and Demux (Duplex)
1U, CH21~CH60 w/Monitor Port (2%), LC/UPC Adapters, I-Temp



C-DWDM-HPMUXDR40M-21-60-I

40ch High Performance DWDM Mux and Demux (Duplex), 1U Rack Mount, Ch21 ~ Ch60 w/Monitor Port (2%), LC/UPC Adapters, Industrial Temperature

Features

- 1U Rack Mount
- High Performance
- Supports ITU-T DWDM Channels
- Monitor port (2%) with UPC/LC connectors
- Operating Temperature: -40°C to 85°C



Product Description

This is a 40 channel 1U 19 Rack mount High Performance DWDM Mux and Demux that operates over channels 21 - 60 and it includes Monitor Ports and duplex LC connectors. This unit can be used as either a multiplexer or de-multiplexer (mux/demux), and is a plug and play system. All of our mux/demux products are 100% compliant and provide a cost effective solution for your network upgrade needs. With our certification test program, we guarantee your product will work correctly the first time.

Technical Specifications

Parameter	Specification			Units	Notes
	Min	Typ	Max		
Channel spacing	010			GHz	
Number of Channels	40			Channels	
Channel Frequencies	ITU Grid			THz	
Available Channel Frequency Range	192.10		196.00	THz	
Channel Passband	-12.5		+12.5	Ghz	
	-0.10		+0.10	nm	
Center Wavelength Accuracy	-0.05		+0.05	nm	
Insertion Loss			3.0	dB	1
			4.0	dB	2
Passband Ripple		1.0	1.2	nm	2
Bandwidth @1.0dB	0.22			nm	
Bandwidth @3.0dB	0.42			nm	
Bandwidth @20dB			1.20	nm	
Insertion Loss Uniformity at ITU			1.20	dB	
Polarization Dependent Loss			0.5	dB	
Adjacent Channel Isolation	27	30		dB	
Non-Adjacent Channel Isolation	30	35		dB	
Total Cross Talk	24	24		dB	
Directivity	45			dB	
Return Loss with connectors	40	45		dB	
Chromatic Dispersion	-20		+20	ps/nm	
PMD			0.5	ps	
Optical Power Handling of Common Port			24	dBm	
Operating Temperature	-40		85	°C	
Operating Humidity (non-condensing)	0		90	% RH	
Storage Temperature	-40		85	°C	
Storage Humidity (non-condensing)	0		90	% RH	

Notes:

1. @Center Wavelength
2. Full Bandwidth

Mechanical Characteristics

Parameter	Specification	Units
Depth	7.875	in
Width	17.25	in
Height	1.75	in



Channel Plan 40 Port AWG – On Grid

The AWG operate in C-band. The C-band channel allocation is based on ITU-T Grid. The channels are as follows:

Channel Number	ITU Channel	Frequency, THz	Wavelength, nm	Channel Number	ITU Channel	Frequency, THz	Wavelength, nm
1	60	196.0	1529.55	25	37	193.7	1547.72
2	59	195.9	1530.33	26	36	193.6	1548.51
3	58	195.8	1531.12	27	35	193.5	1549.32
4	57	195.7	1531.90	28	34	193.4	1550.12
5	56	195.6	1532.68	29	33	193.3	1550.92
6	55	195.5	1533.47	30	32	193.2	1551.72
7	54	195.4	1534.25	31	31	193.1	1552.52
8	53	195.3	1535.04	32	30	193.0	1553.33
9	52	195.2	1535.82	33	29	192.9	1554.13
10	51	195.1	1536.61	34	28	192.8	1554.94
11	50	195.0	1537.40	35	27	192.7	1555.75
12	49	194.9	1538.19	36	26	192.6	1556.55
13	48	194.8	1538.98	37	25	192.5	1557.36
14	47	194.7	1539.77	38	24	192.4	1558.17
15	46	194.6	1540.56	39	23	192.3	1558.98
16	45	194.5	1541.35	40	22	192.2	1559.79
17	44	194.4	1542.14	41	21	192.1	1560.61
18	43	194.3	1542.94	42	20	192.0	1561.42
19	42	194.2	1543.73	43	19	191.9	1562.23
20	41	194.1	1544.53	44	18	191.8	1563.05
21	40	194	1545.32	45	17	191.7	1564.86
22	39	193.9	1546.12	46	16	191.6	1564.68
23	38	193.8	1546.92	47	15	191.5	1565.50
24	37	193.7	1547.72	48	14	191.4	1566.31

About ProLabs

Our experience comes as standard; for over 15 years ProLabs has delivered optical connectivity solutions that give our customers freedom and choice through our ability to provide seamless interoperability. At the heart of our company is the ability to provide state-of-the-art optical transport and connectivity solutions that are compatible with over 90 optical switching and transport platforms.

Complete Portfolio of Network Solutions

ProLabs is focused on innovations in optical transport and connectivity. The combination of our knowledge of optics and networking equipment enables ProLabs to be your single source for optical transport and connectivity solutions from 100Mb to 400G while providing innovative solutions that increase network efficiency. We provide the optical connectivity expertise that is compatible with and enhances your switching and transport equipment.

Trusted Partner

Customer service is our number one value. ProLabs has invested in people, labs and manufacturing capacity to ensure that you get immediate answers to your questions and compatible product when needed. With Engineering and Manufacturing offices in the U.K. and U.S. augmented by field offices throughout the U.S., U.K. and Asia, ProLabs is able to be our customers best advocate 24 hours a day.

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