

## 3C-DWDM-16CH-1U

DWDM MUX DEMUX 16CH (C21-C36/C45-C60) with Expansion and 1310nm and Monitor Port Single fiber LC/UPC 1U Rack

### WDM NETWORK TRANSMISSION SYSTEM

#### PASSIVE DWDM Series

With the rapid development of industry informatization, the demand in long distance and large capacity bandwidth increased rapidly, resulting in the rapid growth in the traffic of the access layer, metro area layer and backbone network. The dependence on the bandwidth rent or optical fiber direct-connection already can not meet the needs of clients in the industry.

Therefore, based on the existing service requirements, in face of the future network development, 3Coptics launched DWDM series optical transmission system, which is usually used for long-haul transmission where wavelengths are packed tightly together over the C-band, up to 48 wavelengths in 100GHz grid(0.8nm) and 96 wavelengths in 50GHz grid(0.4nm). It's protocol and rate transparent supporting such applications as 1G/10G Ethernet, SDH/SONET and 8/4/2/1G Fiber Channel across the same fiber link.

That provides a reliable, flexible and efficient high bandwidth carrying solution for the operators, Broadcast and TV, IDC, finance, government, cloud, massive data and other industries.

#### PRODUCT FEATURES

- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ Compact Design
- ◆ Good channel-to-channel uniformity
- ◆ Wide Operating Wavelength: ITU C-BAND
- ◆ Wide Operating Temperature: -20 to 75°C

#### PRODUCT FEATURES

- ◆ DWDM System
- ◆ PON Networks
- ◆ CATV links
- ◆ Fiber optical amplifier
- ◆ Wavelength routing

## Product Introduction



### DWDM MUX DEMUX 1U Rack for reference

#### Product specification:

Parameters		
ITU Channels(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		1529.55nm-1560.61nm
Center Wavelength (nm)		ITU, C-band
Passband (nm)		ITU±0.13
Operating Wavelength (nm)		DWDM C-band
Channel Space (nm)		0.8nm 100GHZ
Fiber Type		SMF-28e or customer specified
IL (dB)		3.2
Isolation (dB)	Adjacent Channel	≥30
	Non-Adjacent Channel	≥ 40
PDL (dB)		≤ 0.2
PMD (ps)		≤ 0.2
RL (dB)		≥ 45
Directivity (dB)		≥ 50
Maximum Optical Power (mw)		≤ 500
Operating Temperature ( )°C		-20~75
Storage Temperature ( )°C		-40~85
1U Rack	Weight	1.5kg
Package	Dimensions	1U Rack 19" inch 440*230*44MM

Notes: Specified with connectors.

## Product Oder information

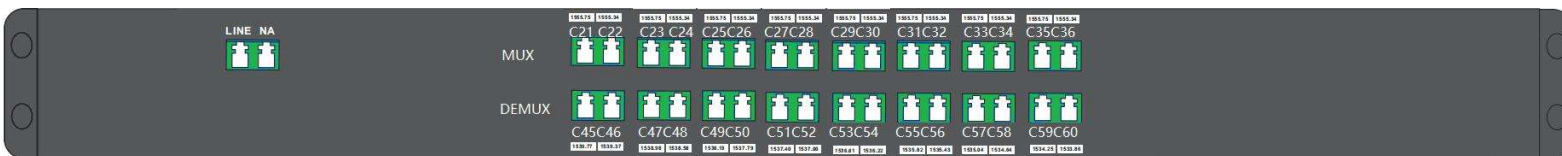
NO.	PART NAME	PART NO.	Product Des.
	<b>Single fiber</b>		
3	DWDM Devices	3C-DWDM-16CH-1U	DWDM MUX DEMUX 16CH (C21-C36/C45-C60) with Expansion and 1310nm and Monitor Port Single fiber LC/UPC 1U Rack
	<b>Others</b>	<b>Support Customized Design, please contact us</b>	

## Product Panel

### Single fiber

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100GHZ DWDM ITU Waves					
ITU Channel Product Code	Frequency(THz)	Wavelength	ITU Channel Product Code	Frequency(THz)	Wavelength
17	191.7	1563.86	40	194.0	1545.32
18	191.8	1563.04	41	194.1	1544.52
19	191.9	1562.23	42	194.2	1543.73
20	192.0	1561.41	43	194.3	1542.93
21	192.1	1560.61	44	194.4	1542.14
22	192.2	1559.79	45	194.5	1541.34
23	192.3	1558.98	46	194.6	1540.55
24	192.4	1558.17	47	194.7	1539.76
25	192.5	1557.36	48	194.8	1538.97
26	192.6	1556.55	49	194.9	1538.19
27	192.7	1555.74	50	195.0	1537.40
28	192.8	1554.94	51	195.1	1536.61
29	192.9	1554.13	52	195.2	1535.82
30	193.0	1553.32	53	195.3	1535.04
31	193.1	1552.52	54	195.4	1534.25
32	193.2	1551.72	55	195.5	1533.46

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33	193.3	1550.92	56	195.6	1532.68
34	193.4	1550.11	57	195.7	1531.89
35	193.5	1549.32	58	195.8	1531.12
36	193.6	1548.51	59	195.9	1530.33
37	193.7	1547.71	60	196.0	1529.55
38	193.8	1546.92	61	196.1	1528.77
39	193.9	1546.12	-	-	-

**Note: 3coptics Support Customized Design, please contact us by email [sales@3coptics.com](mailto:sales@3coptics.com)**

## Contact Information

Thank you for choosing our products, if need more information or technique support for transmission solution design, please contact us, we will do our best to you.