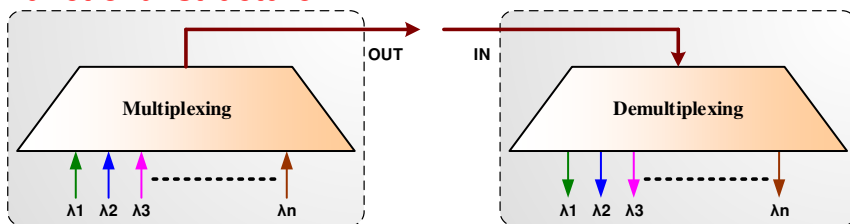


With the rapid development of industry informatization, the demand in long distance and large capacity bandwidth increased rapidly, resulting in the rapid growth in the traffic of the access layer, metro area layer and backbone network. The dependence on the bandwidth rent or optical fiber direct-connection 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, our company 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.

Functional structure



Product Introduction



50GHz DWDM AAWG MUX/ DEMUX 80ch 1U Rack

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 specification

Parameter		Unit	Specifications				
ITU Band		GHz	ITU, C-band				
Channel Spacing		GHz	50				
Number of channels			80CH/96C H	80CH/96C H+1310	80CH/96CH+ MONITOR	80CH/96CH+1 310+MONITO R	
Wavelength accuracy		Max	nm	0.05			
Insertion Loss	Waves	Max	dB	6.0	6.5	6.5	6.8
	1310NM	Max	dB		0.8		1.0
	Monitor	Max	dB			26.5	26.5
-1dB passband		Min	nm	0.18			
-3dB passband		Min	nm	0.28			
Isolation	Adjacent Channel	Min	dB	25			
	Non-adjacent Channel	Min	dB	30			
Total Crosstalk		Min	dB	25			
Ripple in Passband		Max	dB	0.75			
Polarization Dependent Loss		Max	dB	0.5			
Uniformity		Max	dB	1.5			
Directivity		Min	dB	50			
Return Loss		Min	dB	40			
Polarization Mode Dispersion		Max	ps	0.5			
Power Handling		Max	mW	300			
Fiber Type				Corning SMF-28 / SMF-28e or customize			
Operating Temperature			°C	5~70			
Storage Temperature			°C	-40~85			
19" Rack	Weight			1.7kg			
	Dimensions		mm	440*230*44MM			

Product Oder information

NO.	Наименование	Артикул.	Описание.
	Single fiber		
1	80CH AAWG	NS-DWDM-MUX-C80-50GHz	50GHZ DWDM AAWG MUX/ Demux 80ch (C21-H60) Single fiber LC/UPC 1U Rack
2	80CH+1310 AAWG	NS-DWDM-MUX-C80-50GHz-31	50GHZ DWDM AAWG MUX/ Demux 80ch (C21-H60) with 1310nm port Single fiber LC/UPC 1U Rack
3	80CH+MON AAWG	NS-DWDM-MUX-C80-50GHz-M	50GHZ DWDM AAWG MUX/ Demux 80ch (C21-H60) with Monitor port Single fiber LC/UPC 1U Rack
4	80CH+1310+MON	NS-DWDM-MUX-C80-	50GHZ DWDM AAWG MUX/ Demux 80ch (C21-

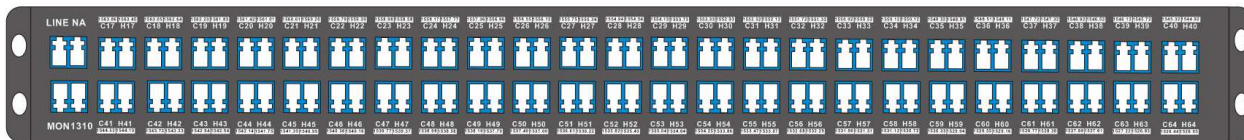


NETS

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	AAWG	50GHz-31-M	H60) with 1310nm and Monitor port Single fiber LC/UPC 1U Rack
5	96CH AAWG	NS-DWDM-MUX-C96-50GHz-AAWG	50GHZ DWDM AAWG MUX/ Demux 96ch (C17-H64) Single fiber LC/UPC 1U Rack
6	96CH+1310 AAWG	NS-DWDM-MUX-C96-50GHz-AAWG-31	50GHZ DWDM AAWG MUX/ Demux 96ch (C17-H64) with 1310nm port Single fiber LC/UPC 1U Rack
7	96CH+MON AAWG	NS-DWDM-MUX-C96-50GHz-AAWG-M	50GHZ DWDM AAWG MUX/ Demux 96ch (C17-H64) with Monitor port Single fiber LC/UPC 1U Rack
8	96CH+1310+MON AAWG	NS-DWDM-MUX-C96-50GHz-AAWG-31-M	50GHZ DWDM AAWG MUX/ Demux 96ch (C17-H64) with 1310nm and Monitor port Single fiber LC/UPC 1U Rack
	Others	Support Customized Design	

Panel Outlet



LC Wavelength Guide

50GHZ DWDM ITU Waves					
ITU Channel Product Code	Frequency(THz)	Wavelength	ITU Channel Product Code	Frequency(THz)	Wavelength
C17	191.70	1563.86	C41	194.10	1544.53
H17	191.75	1563.45	H41	194.15	1544.13
C18	191.80	1563.05	C42	194.20	1543.73
H18	191.85	1562.64	H42	194.25	1543.33
C19	191.90	1562.23	C43	194.30	1542.94
H19	191.95	1561.83	H43	194.35	1542.54
C20	192.00	1561.42	C44	194.40	1542.14
H20	192.05	1561.01	H44	194.45	1541.75
C21	192.10	1560.61	C45	194.50	1541.35
H21	192.15	1560.20	H45	194.55	1540.94
C22	192.20	1559.79	C46	194.60	1540.56
H22	192.25	1559.39	H46	194.65	1540.16
C23	192.30	1558.98	C47	194.70	1539.77
H23	192.35	1558.58	H47	194.75	1539.37
C24	192.40	1558.17	C48	194.80	1538.98
H24	192.45	1557.77	H48	194.85	1538.58

C25	192.50	1557.36	C49	194.90	1538.19
H25	192.55	1556.96	H49	194.95	1537.79
C26	192.60	1556.55	C50	195.00	1537.40
H26	192.65	1556.15	H50	195.05	1537.00
C27	192.70	1555.75	C51	195.10	1536.61
H27	192.75	1555.34	H51	195.15	1536.22
C28	192.80	1554.94	C52	195.20	1535.82
H28	192.85	1554.54	H52	195.25	1535.43
C29	192.90	1554.13	C53	195.30	1535.04
H29	192.95	1553.73	H53	195.35	1534.64
C30	193.00	1553.33	C54	195.40	1534.25
H30	193.05	1552.93	H54	195.45	1533.86
C31	193.10	1552.52	C55	195.50	1533.47
H31	193.15	1552.12	H55	195.55	1533.07
C32	193.20	1551.72	C56	195.60	1532.68
H32	193.25	1551.32	H56	195.65	1532.29
C33	193.30	1550.92	C57	195.70	1531.90
H33	193.35	1550.52	H57	195.75	1531.51
C34	193.40	1550.12	C58	195.80	1531.12
H34	193.45	1549.72	H58	195.85	1530.72
C35	193.50	1549.32	C59	195.90	1530.33
H35	193.55	1548.92	H59	195.95	1529.94
C36	193.60	1548.51	C60	196.00	1529.55
H36	193.65	1548.11	H60	196.05	1529.16
C37	193.70	1547.72	C61	196.10	1528.77
H37	193.75	1547.32	H61	196.15	1528.38
C38	193.80	1546.92	C62	196.20	1527.99
H38	193.85	1546.52	H62	196.25	1527.61
C39	193.90	1546.12	C63	196.30	1527.22
H39	193.95	1545.72	H63	196.35	1526.83
C40	194.00	1545.32	C64	196.40	1526.44
H40	194.05	1544.92	H64	196.45	1526.05

Note: Support Customized Design