

OPCOM100-DMU40 40-Channel DWDM

Mux/Demux

OPCOM100-DMU40 is a 40-channel DWDM (Dense Wavelength Division Multiplexing) unidirectional Mux/Demux device which transmits services on a single-strand fiber and should work in pairs. It performs de-multiplexing or multiplexing of forty specific color wavelengths among C21-C60 DWDM-wavelength; The wavelength channel spacing is 100GHz.

The device has the advantages of high integration and Low failure rate which can not only improve the integration of the system and reduce system failure points, but also enhance the system channel equalization. OPCOM100-DMU40 is appropriate for the 40 DWDM wavelengths transmission system which can provide a flexible "Pay-As-You-Grow" solution for a cost-effective and complete range of services transmission by directly deploying Fast Ethernet, Gigabit Ethernet, fiber channel and SDH services utilizing DWDM technologies, increasing the flexibility and capability of existing fiber lines cost-effectively.



OPCOM100-DMU40

Typical Application

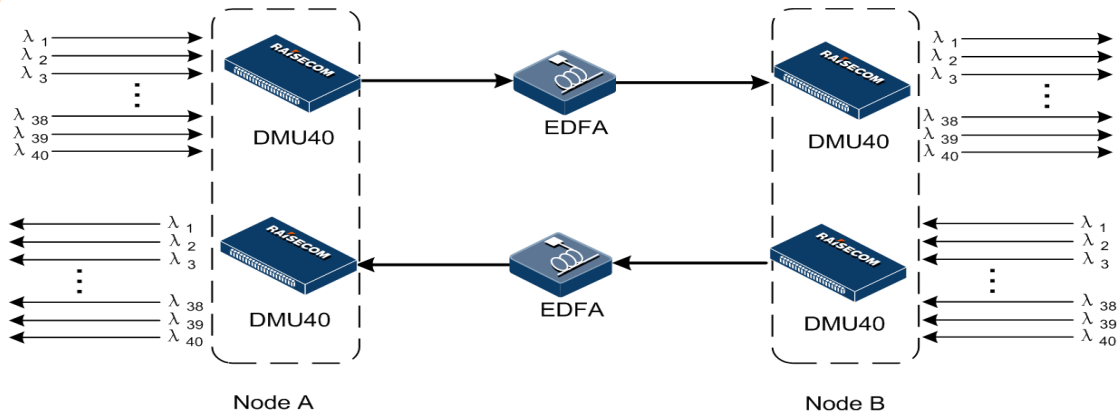


Figure.1 Point to Point Topology

Typical Application

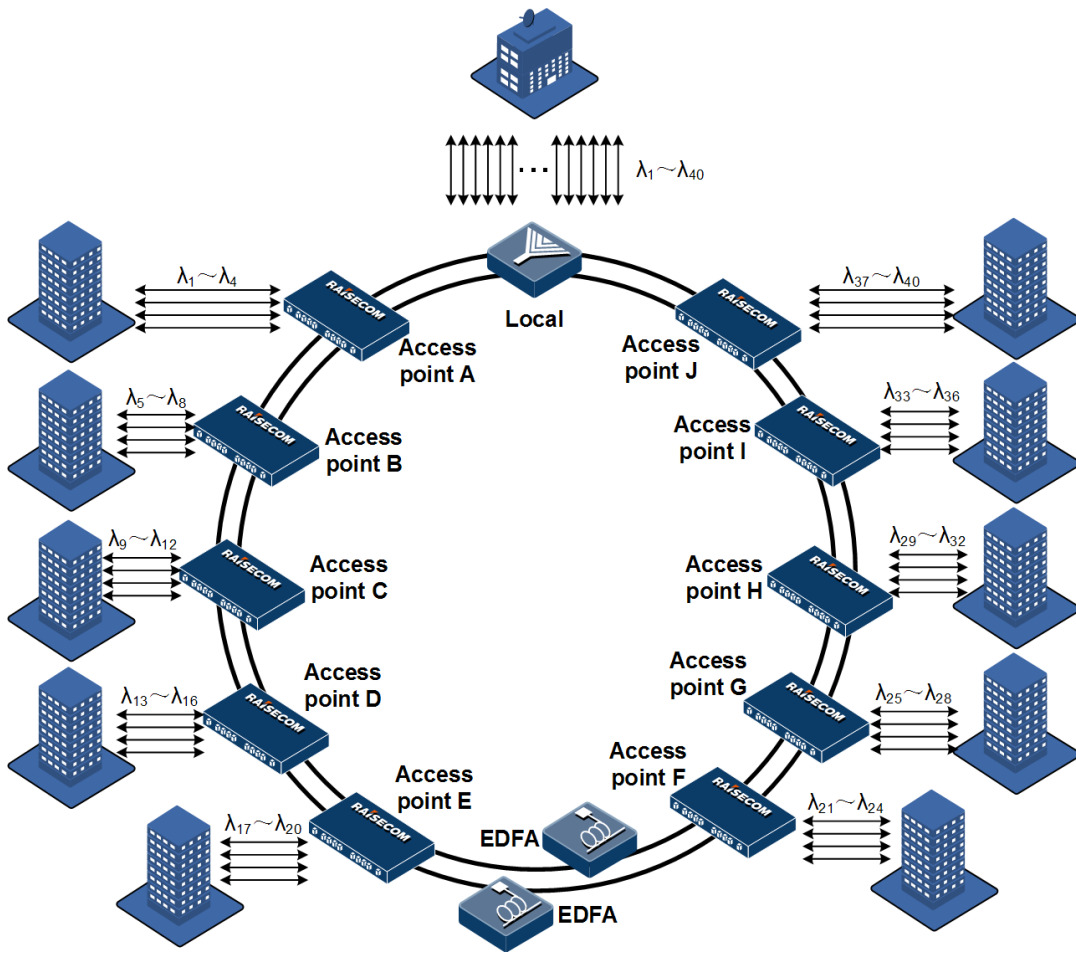


Figure.2 DWDM Ring Topology

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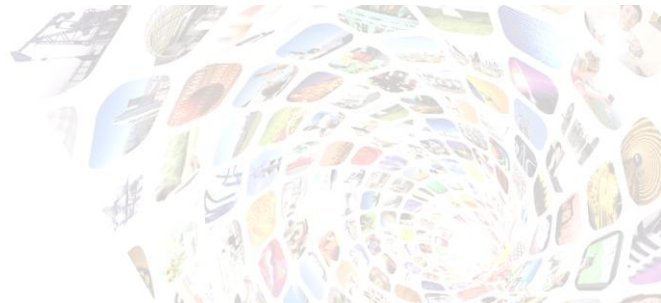
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Key Features

Features	Provides 40-channel DWDM bidirectional Multiplexing/De-multiplexing wavelengths(C21-C60); Transparent to services, working at any signal speed; MUX/DEMUX works without power supply; Highly integrated system, less fault points; Standard LC/UPC optical interface, Compact structure;
Construction	Stand alone rack-mounted device(for 19 inch frame) ;
Operating wavelength	C21-C60
Wavelength spacing	100 GHz
Service channel	DWDM:40 channel
ITU-T channel bandwidth	±12.5 GHz
Wavelength accuracy	±0.04 nm
0.5 dB channel width	≥0.22 dB
1 dB channel width	≥0.4 dB
Channel uniformity	≤0.5 dB
Channel insertion loss	≤6.0 dB
Channel insertion loss uniformity	≤1.2 dB
Adjacent channel isolation	≥22 dB
Non-adjacent channel isolation	≥30 dB
Total channel isolation	≥20 dB
Wavelength thermal stability	≤0.001 nm/°C
Insertion loss thermal stability	≤0.008 dB/°C
COM port carrying light power	≤500 mW
Dispersion	-20~+20 ps/nm
PMD(Polarization mode dispersion)	<0.5 ps
PDL(polarization dependence loss)	≤0.2 dB
Return loss	≥40 dB
Directivity	≥50 dB



Transmission media 9/125um single mode fiber

Specifications

User Side Port	LC/UPC optical port
Line Side Port	LC/UPC optical port
Demensions	Modular: 1U high 19 inches width
Working Ambience	Temp: -5~65 centigrade RH: 20~90% non-condensing
Storage Ambience	Temp: -40~85 centigrade RH: 5~90% non-condensing

Ordering Information

OPCOM100-DMU40 C21-C60 forty DWDM wavelengths Mux/Demux device; channel spacing is 100Hz; Optical interface: LC/UPC;

ITU-T Channel Number	Centre Frequency(THz)	Centre Wavelength(nm)	ITU-T Channel Number	Centre Frequency(THz)	Centre Wavelength(nm)
C21	192.1	1560.61	C22	192.2	1559.79
C23	192.3	1558.98	C24	192.4	1558.17
C25	192.5	1557.36	C26	192.6	1556.55
C27	192.7	1555.75	C28	192.8	1554.94
C29	192.9	1554.13	C30	193.0	1553.33
C31	193.1	1552.52	C32	193.2	1551.72
C33	193.3	1550.92	C34	193.4	1550.12
C35	193.5	1549.32	C36	193.6	1548.51
C37	193.7	1547.72	C38	193.8	1546.92



C39	193.9	1546.12	C40	194.0	1545.32
C41	194.1	1544.53	C42	194.2	1543.73
C43	194.3	1542.94	C44	194.4	1542.14
C45	194.5	1541.35	C46	194.6	1540.56
C47	194.7	1539.77	C48	194.8	1538.98
C49	194.9	1538.19	C50	195.0	1537.40
C51	195.1	1536.61	C52	195.2	1535.82
C53	195.3	1535.04	C54	195.4	1534.25
C55	195.5	1533.47	C56	195.6	1532.68
C57	195.7	1531.90	C58	195.8	1531.12
C59	195.9	1530.33	C60	196.0	1529.55