



MU-series

DWDM Optical Transmission System Specification





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Product Overview

The MU- series is a compact, high-capacity, low-cost OTN optical transmission system which introduced by DWDM.ME. It adopts CWDM / DWDM common platform design, supports multi-service transparent transmission, and has flexible networking and access capabilities. Applicable to the national backbone network, provincial backbone network, metro backbone network and other core networks, to meet the needs of large-capacity nodes above 1.6T, is the industry's most cost- effective transmission application platform. Build a large-capacity WDM transmission expansion solution for IDC and ISP operators.

Ultra-large Capacity Intelligent Transmission Platform



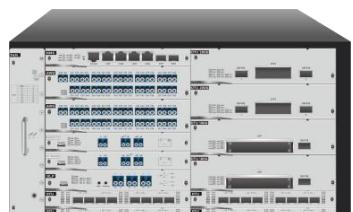
[MU-70-ACDC - 1U chassis](#)

- Standard 1U, 19", 4 slots
- Dual power supply AC/DC optional
- Multiple service card hybrid insertion
- Support 10G/100G/200G hybrid transmission



[MU-180-ACDC - 2U chassis](#)

- Standard 2U, 19", 8 slots
- Dual power supply AC/DC optional
- Multiple service card hybrid insertion
- Support 10G/100G/200G hybrid transmission

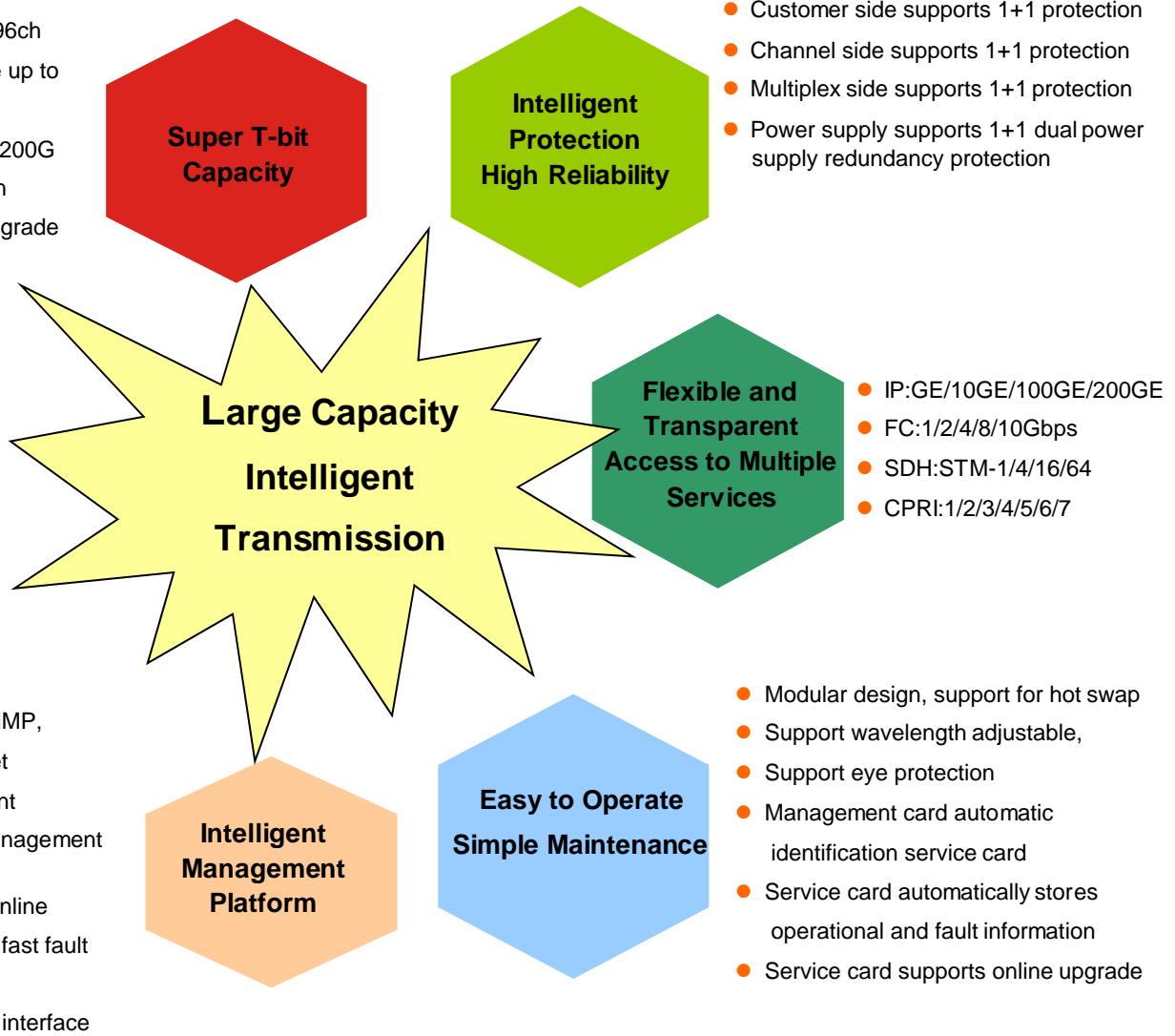


[MU-380-ACDC - 5U chassis](#)

- Standard 5U, 19", 20 slots
- Dual power supply AC/DC optional
- Multiple service card hybrid insertion
- Support 10G/100G/200G hybrid transmission

Ultra-Wideband Intelligent Transmission Platform

- Maximum support 96ch
- Single channel rate up to 200Gbps,
- support 10G/100G/200G mixed transmission
- Smooth network upgrade

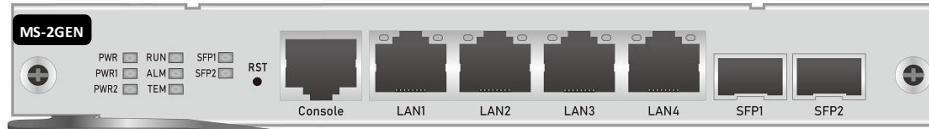


Specifications

Name	Description	
Transmission Capacity	96x10Gbps /96x100Gbps	
Network Management Unit	EMS network management disk	
OTU	Support 1.25G ~10Gbps,100Gbps ➤ 1/2/4/8 /10Gbps Fibre Channel ➤ CPRI: 2/3/4/5/6/7 ➤ 1G/10G Ethernet LAN or WAN PHY ➤ STM-4/16/64 SONET/SDH	
MUX/DEMUX	Support 8ch/16ch/40ch/48ch	
EDFA	EDFA erbium doped fiber amplifier	
DCM	DCM:G.652/G655 Dispersion compensation fiber module	
OLP	OLP optical protection	
Size	Services Card	191 (W) x 253 (D) x 20 (H) mm
	MU-70-ACDC - 1U chassis	482.5 (W) x 350(D) x 44.5 (H) mm
	MU-180-ACDC - 2U chassis	482.5 (W) x 350(D) x 89 (H) mm
	MU-380-ACDC - 5U chassis	482.5 (W) x 350(D) x 222.5 (H) mm
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% Non-condensing
Power Supply Mode	Dual power supply, AC220V/DC-48V optional	
Power Consumption	1U <120W, 2U<200W, 5U<400W	



NMS Management Card (MS-2GEN)



Function

- Achieve local serial port monitor
- Remote SNMP network management
- OSC signal to achieve two-way transmission

Highlight

- Support CLI, Telnet, SNMP, Web
- One site network failure does not affect other sites network management information transmission
- Using 1510nm wavelength, supporting cross-segment transmission maximum 40dB
- 10/100Base-TX management interface port with auto negotiation and auto MDI/MDIX – easy integration into existing Ethernet networks
- Dual 100Base-FX SFP-based interfaces – easy integration into 'gray' or CWDM/DWDM optical networks, able to direct East-West WDM ring OSC

Specifications

System parameters	Description
CON	Local serial access (out-of-band)
Ethernet	4x10/100Base-TX management interfaces ports with auto negotiation and auto MDI/MDIX – easy integration into existing Ethernet networks
SFP Optical Port	Dual 100Base-FX SFP-based interfaces – easy integration into 'gray' or CWDM/DWDM optical networks, able to direct East-West WDM ring OSC
Management	TELNET, SNMP, WEB
Cross Function	Support IP communication between devices to achieve integrated management of multiple devices
Protective Function	Support dual optical port 1+1 protection
Size	191 (W) x 253 (D) x 20 (H) mm
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-40°C ~ 80°C
Relative Humidity	5% ~ 95% Non-condensing
Power Consumption	≤15W

100G QSFP28 to CFP Transponder (LC-MP100-II)



Function

- Media conversion
- Signal repeating
- Lambda conversion

Highlight

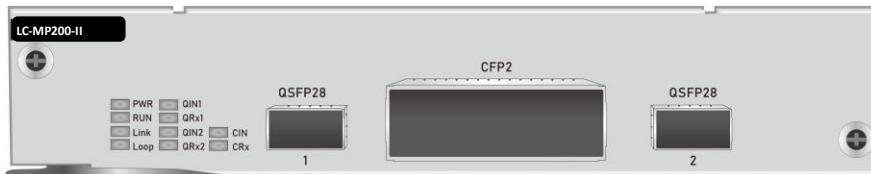
- Support single channel 100Gbps
- Client side : QSFP28 module
- Line side : CFP 100Gbps coherent module;
- Ultra-long-distance transmission: FEC technology can be used to achieve 1500km transmission without regeneration
- Large dispersion tolerance: 40000ps.nm
- Support port loopback test
- Support 80 channel wavelength tunable

Specifications

System Parameters		Technical Indicators
Center Wavelength		DWDM 1529.5~1565.50nm
Data Rate (Gbps)		100Gbps
100G interface	Client Side	QSFP28 module
	Line Side	CFP 100Gbps coherent module
FEC (Gain, Delay, BER Threshold)	GFECC	6.2dB, 1.2μs, 8.5e-2
	100GE-SDFEC-LOW-LATENCY-SD2	10.6dB, 9.4μs, 1.40e-2
	100GE-SDFEC-LH-SD2	9.4dB, 7.9μs, 1.01e-2
	100GE-SDFEC-LOW-LATENCY-SD0	10.8dB, 9.4μs, 1.56e-2
NMS		TELNET, SNMP, WEB
Size		191 (W) x 253 (D) x 42 (H) mm
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% Non-condensing
Power Consumption		≤50W



2xQSFP28 to CFP2 200G Muxponder (LC-MP200-II)



Function

- Media conversion
- Signal repeating
- Lambda conversion

Highlight

- Support single channel 200Gbps
- Client side : 2x QSFP28 module
- Line side : CFP2 200Gbps coherent module;
- Ultra-long-distance transmission: FEC technology can be used to achieve 1500km transmission without regeneration
- Large dispersion tolerance: 40000ps.nm
- Support port loopback test
- Support 80 channel wavelength tunable

Specifications

System parameters		Technical indicators
Center Wavelength		DWDM 1529.5~1565.50nm
Data Rate (Gbps)		200Gbps
200G Interface	Client Side	2xQSFP28 module
	Line Side	CFP2 200Gbps coherent module
FEC (Gain, Delay, BER Threshold)	GFEC	6.2dB, 1.2μs, 8.5e-2
	100GE-SDFEC-LOW-LATENCY-SD2	10.6dB, 9.4μs, 1.40e-2
	100GE-SDFEC-LH-SD2	9.4dB, 7.9μs, 1.01e-2
	100GE-SDFEC-LOW-LATENCY-SD0	10.8dB, 9.4μs, 1.56e-2
NMS		TELNET, SNMP, WEB
Size		191 (W) x 253 (D) x 42 (H) mm
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% Non-condensing
Power Consumption		≤50W

400G Muxponder 4x100G converge to 400G (LC-MP400-II)

LC-MP400-II - the 400G Muxponder Transmitter supports four QSFP28 client interface and one CFP2 line-side interface to support single-channel 400Gbps large-grain data transfers. The industry's most advanced coherent technology and FEC forward error correction coding technology enable high-capacity, long-distance high-performance transmission.



Function

- █ Media conversion
- █ Signal repeating
- █ Lambda conversion

Highlight

- █ Support single channel 400Gbps
- █ Client Side: 4x QSFP28 module
- █ Line Side: CFP2 400Gbps coherent module
- █ Ultra-long-distance transmission: FEC technology can be used to achieve 1000km transmission without regeneration
- █ Large dispersion tolerance: 20000ps.nm
- █ Support port loopback test
- █ Support 80 channel wavelength tunable

LC-MP400-II - 400G Muxponder includes integrated OTN FEC capability on the transponder, allowing operation over longer distances or in applications requiring ultra-low bit error rates.

The 400G Muxponder from DWDM.ME offer a choice of pluggable QSFP28 Client Side Optics and CFP2 -DCO Coherent DWDM Line Side Optics based on distance and capacity requirements.

The Coherent DWDM Optics are the most technologically advanced and offer benefits on dispersion management, signal reach, and other optical properties. Coherent DWDM Optics can greatly increase the capacity and reach of an optical network. The 400G Muxponder models fits for MU- series (chassis: MU-70-ACDC - 1U, MU-180-ACDC - 2U, MU-380-ACDC - 5U).



Performance Parameter

System Parameter		Technical Indicator
Center Wavelength		DWDM 1529.5~1565.50nm
Data Rate		400Gbps
400G Interface	Client Side	4xQSFP28 module
	Line Side	CFP2 400Gbps coherent module
FEC (gain, delay, BER threshold)	200G-QPSK, 20% SDFEC, 2x100G	Rx OSNR Tolerance: 13.8dB
	200G-16QAM-PS, 20% SDFEC, 2x100G	Rx OSNR Tolerance: 15.8dB
	400G-16QAM-PS, 20% SDFEC, 4x100G	Rx OSNR Tolerance: 21dB
NMS		TELNET, SNMP, WEB
Size		191 (W) x 253 (D) x 42 (H) mm
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% Non-condensing
Power Consumption		≤50W



MU-series DWDM Optical Transmission System

100G Muxponder: QSFP28 ↔ 4xSFP28



Function

- Implement 4x25G↔100G multiplexing/demultiplexing

Highlight

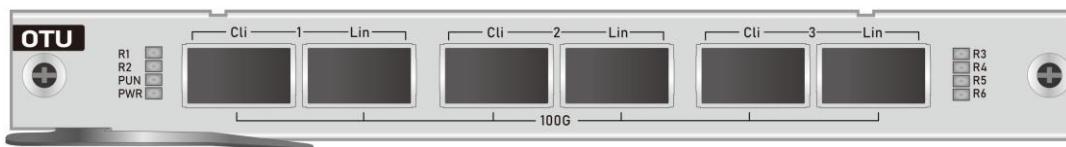
- Support : 4x25G↔100G/100G↔4x25G
- Client side : 100G QSFP28 module
- Line side : 4xSFP28 module (Four 25G ports)
- Support one 100G service de-multiplexed into four 25G rate WDM standard wavelength optical signals
- Support port loopback test
- Support C-band 50GHz 80 channel

Specifications

System Parameters		Technical Indicators
Center Wavelength		DWDM 1529.5~1565.50nm
Data Rate (Gbps)		100Gbps
100G interface	Client Side	100G QSFP28 module
	Line Side	4xSFP28 25G module
NMS		TELNET, SNMP, WEB
Size		191 (W) x 253 (D) x 20 (H) mm
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% Non-condensing
Power Consumption		≤30W



40G&100G OEO: 6*QSFP28



Function

- Media conversion
- Signal repeating
- Lambda conversion

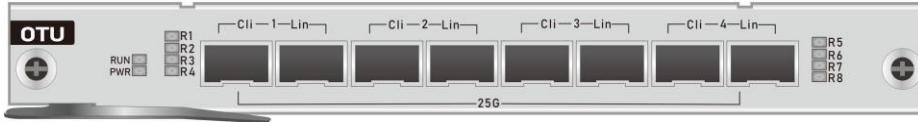
Highlight

- Support single channel 40Gbps/100Gbps large particle transmission
- Client side interface: support 3xQSFP28 module
- Line side interface: support 3xQSFP28 module
- Support DDM digital diagnosis
- Support ALS function
- Support LFP function

Specifications

System Parameters		Technical Indicators
Center Wavelength		850nm, DWDM 1270~1610nm
Data Rate (Gbps)		100Gbps/40G
100G Interface	Client Side	100G QSFP28 /40G SFP+
	Line Side	100G QSFP28 /40G SFP+
Service Model		Support 100G/40G OEO relay, amplification and regeneration, wavelength conversion
NMS		TELNET, SNMP, WEB
Size		191 (W) x 253 (D) x 20 (H) mm
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
Power Consumption		≤30W

SFP28 25G Quad Transponder



Function

- Media conversion
- Signal repeating
- Lambda conversion

Highlight

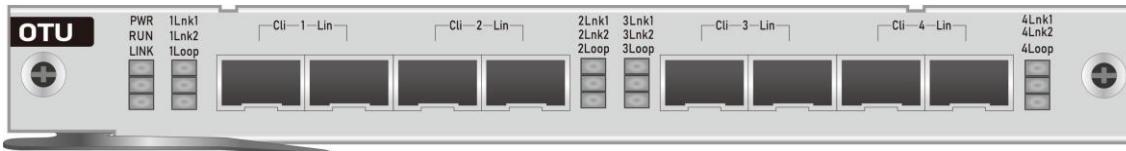
- Multi-rate supports 1Gbps ~ 32Gbps
- Supports ALS, LFP
- Flexible transmission of various protocols
 - Fiber Channel 1/2/4/8 /10/16/32Gbps
 - CPRI:2/3/4/5/6/7
 - 1G/10G/25G Ethernet
 - SDH STM-4/16/64

Specifications

System Parameters		Technical Indicators
Center Wavelength		Compliance with ITU-I standard CWDM 1271 ~ 1611nm DWDM 1529.5~1565.50nm
Data Rate (Gbps)		Fiber Channel :1/2/4/8 /10/16/32Gbps <ul style="list-style-type: none"> ➢ CPRI: 2/3/4/5/6/7 ➢ Ethernet : 1G/10G/25G ➢ SONET: OC-24, OC-48, OC-192 ➢ SDH :STM-16/64
Optical Interface Type		8xSFP28
NMS		TELNET, SNMP, WEB
Size		191 (W) x 253 (D) x 20 (H) mm
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% Non-condensing
Power Consumption		≤30W



SFP+ Multi-Rate Quad Transponder



Function

- Media conversion
- Signal repeating
- Lambda conversion

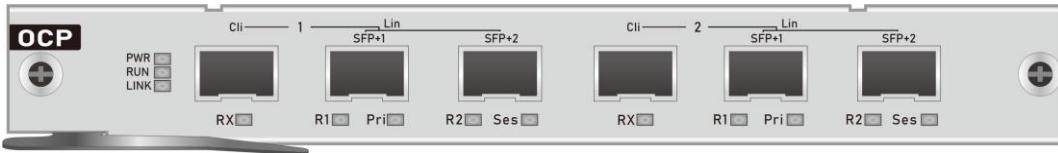
Highlight

- 3R signal regeneration
 - Re-transmission
 - Re-shaping
 - Re-timing
- Multi-rate supports 1Gbps ~ 10Gbps
- Supports Loopback Test
- Supports LFP
- Flexible transmission of various protocols
 - Fibre Channel 1/2/4/8 /10Gbps
 - CPRI: 2/3/4/5/6/7
 - 1G/10G Ethernet
 - SDH STM-4/16/64

Specifications

Parameters	Technical Indicators	
Center Wavelength	Compliance with ITU-I standard CWDM 1271 ~ 1611nm DWDM 1529.5~1565.50nm 850nm/1310nm/1550nm	
Data Rate (Gbps)	Fiber Channel :1/2/4/8 /10Gbps CPRI: 2/3/4/5/6/7 Ethernet :1G/10G SONET: OC-24, OC-48, OC-192 SDH :STM-16/64	
3R Regeneration	Re-amplification, Re-shaping, Re-timing	
Optical Interface Type	8xSFP+	
NMS	TELNET, SNMP, WEB	
Size	191 (W) x 253 (D) x 20 (H) mm	
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% Non-condensing
Power Consumption	≤30W	

Redundant Multi-Rate Dual Transponder



Function

- Media conversion
- Signal repeating
- Lambda conversion
- Supports 1+1 optical channel protection

Highlight

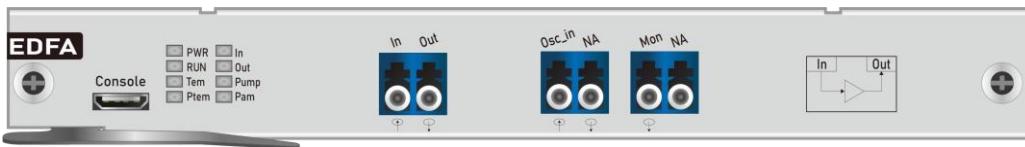
- 3R signal regeneration
 - Re-transmission
 - Re-shaping
 - Re-timing
- Supports 1+1 optical channel protection
- Supports Loopback Test
- Supports LFP
- Flexible transmission of various protocols
- Fiber Channel 1/2/4/8 /10Gbps
 - CPRI;2/3/4/5/6/7
 - 1G/10G Ethernet
 - SDH STM-4/16/64

Specifications

System Parameters		Technical Indicators
Center Wavelength		Compliance with ITU-I standard CWDM 1271 ~ 1611nm DWDM 1529.5~1565.50nm 850nm/1310nm/1550nm
Data Rate (Gbps)		Fiber Channel :1/2/4/8 /10Gbps CPRI;2/3/4/5/6/7 Ethernet :1G/10G SONET: OC-24, OC-48, OC-192 SDH :STM-16/64
3R Regeneration		Re-amplification, Re-shaping, Re-timing
Optical Channel Protection		1+1 optical channel protection, switching time<30ms
Optical Interface Type		6xSFP+/6xXFP
NMS		TELNET, SNMP, WEB
Size		191 (W) x 253 (D) x 20 (H) mm
Environment	Operating Temperature	-10°C ~ 60°C
	Storage Temperature	-40°C ~ 80°C
	Relative Humidity	5% ~ 95% Non-condensing
Power Consumption		≤30W



EDFA Optical Amplifiers



Function

- C-band optical signal overall amplification
- Covering the wavelength range of 1528 ~ 1565nm
- Support systems to achieve different cross-section radio repeater transmission

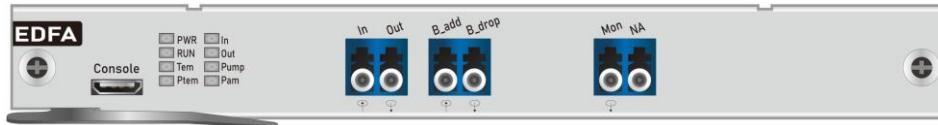
Highlight

- Wide operating wavelength range:1528nm~1565nm
- Three Optical Amplifier C-Band applications:
 - Booster
 - In-line
 - Pre-amplifier
- Low noise figure: typical: 5dB
- Excellent gain flatness
- Multiple operating modes:
 - AGC adjustable Gain ,
 - APC output is adjustable,
 - ACC voltage adjustable
- Mid-stage access for DCM or OADM
- Optional OSC channel for remote management
- MON port, on-line monitoring optical power and OSNR

Specifications

Parameter	Min	Typical	Max	Unit
Operating Wavelength	1528		1565	nm
Output Power			22	dBm
Gain	8		33	dB
Input Power	BA	-10	Max.Output -Gain	dBm
	PA/LA	(Max.input-29)	Max.Output -Gain	
Noise Figure		5.0		dB
Gain Flatness		1.0		dB
Input Threshold	-34		Can be adjusted	dBm
Polarization Dependence Loss			0.3	dB
Polarization Dependence Gain			0.4	dB
Polarization Mode Dispersion			0.5	ps
Pump Power Leakage			-29	dBm
Return Loss	45			dB
Size	191 (W) x 253 (D) x 20 (H)			mm
Environment	Operating Temperature	-10°C ~ 60°C		°C
	Storage Temperature	-40°C ~ 80°C		°C
	Relative Humidity	5% ~ 95% Non-condensing		
Power Consumption	≤15			W

Bidi EDFA Optical Amplifiers



Function

- C-band optical signal overall amplification
- Covering the wavelength range of 1528 ~ 1565nm
- Support systems to achieve different cross-section radio repeater transmission

Highlight

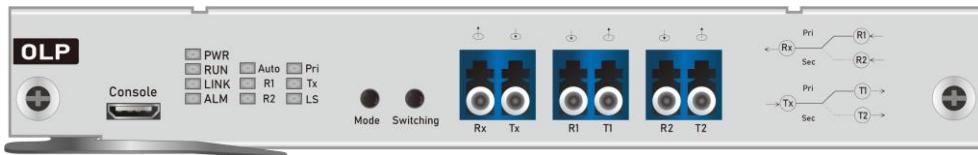
- Wide operating wavelength range:1528nm~1565nm
- Three Optical Amplifier C-Band applications:
 - Booster
 - In-line
 - Pre-amplifier
- Low noise figure: typical: 5dB
- Excellent gain flatness
- Multiple operating modes:
 - AGC adjustable Gain
 - APC output is adjustable
 - ACC voltage adjustable
- Mid-stage access for DCM or OADM
- Optional OSC channel for remote management
- MON port, on-line monitoring optical power and OSNR

Specifications

Parameter	Min.	Typical	Max.	Unit
Operating Wavelength Blue	1528		1543	nm
Operating Wavelength Red	1547		1561	nm
Output Power			22	dBm
Gain	8		33	dB
Input Power	BA	-10	Max.Output -Gain	dBm
	PA/LA	(Max.input-29)	Max.Output -Gain	
Noise Figure		5.0		dB
Gain Flatness		1.0		dB
Input Threshold	-34		Can be adjusted	dBm
Polarization Dependence Loss			0.3	dB
Polarization Dependence Gain			0.4	dB
Polarization Mode Dispersion			0.5	ps
Pump Power Leakage			-29	dBm
Return Loss	45			dB
Size	191 (W) x 253 (D) x 20 (H)			mm
Environment	Operating Temperature	-10°C ~ 60°C		
	Storage Temperature	-40°C ~ 80°C		
	Relative Humidity	5% ~ 95% Non-condensing		
Power Consumption	≤15			W



OLP Optical Line Protector



Function

- Optical line automatic switching protection
- Real-time power monitoring
- Support automatic switching of primary and secondary routes

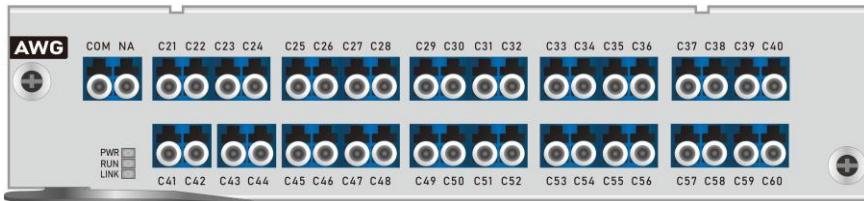
Highlight

- Support automatic switching of primary and secondary routes
- Support manual and automatic switching modes
- Low switching time <30ms
- Low insertion loss: <5.5dB
- Support automatic return to the Primary
- Support manual, automatic working mode settings
- Support for switching threshold settings

Specifications

Parameter	1:1	1+1	Unit
Operating Wavelength	1310±50nm , 1550±50nm		nm
Optical Power Range	+23~-50		dBm
Accuracy of the Optical Power	±0.25		dB
Detection Light Power Resolution	±0.01		dB
Return Loss	≥55		dB
Polarization Dependent Loss	≤0.05		dB
Wavelength Dependent Loss	≤0.1		dB
Insertion Loss	Tx≤1.2dB RX≤1.2dB	Tx≤4dB RX≤1.2dB	dB
Switch Speed	<30	<15	ms
Dimension	191 (W) x 253 (D) x 20 (H)		mm
Environment	Operating Temperature	-10°C~+60°C	
	Storage Temperature	-40°C~+85°C	
	Relative Humidity	5%~95% Non-condensing	
Power Consumption	≤5		W

40ch DWDM MUX/DEMUX(AAWG)



Function

- 40 channel DWDM optical signal multiplexed into one fiber
- 40 channel optical signal demultiplexer to single-wavelength signals

Highlight

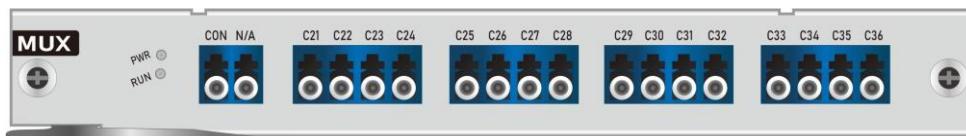
- 40 Channel Multiplexer and Demultiplexer (MUX & DEMUX)
- Plug'n play: requires no configuration
- Green product: completely passive, needs no power and no cooling
- Low insertion loss, insertion loss \leq 6dB, typical: 4.5dB
- Uniform insertion loss variation over the 40-channels - less than 1dB (typical 0.6dB)per MUX or DEMUX
- High channel isolation:adjacent isolation \geq 25dB; non-adjacent isolation \geq 35dB
- High reliability, MTBF of 100 years

Specifications

Parameter	Technical Indicators		Unit	
Channel Wavelength	C -band		nm	
Channel Spacing	100		GHz	
3dB Bandwidth	0.51		nm	
Insertion Loss	6		dB	
Channel Isolation	Adjacent	>25		dB
	Non-adjacent	>35		dB
Directivity	>45		dB	
Insertion Loss Flatness	<0.5		dB	
Return Loss	>45		dB	
Polarization Dependent Loss	<0.3		dB	
Polarization Mode Dispersion	<0.5		ps	
Maximum Power Handling	>23		dBm	
Dimension	191 (W) x 253 (D) x 41 (H)		(mm)	
Environment	Operating Temperature	-10°C~+60		°C
	Storage Temperature	-40°C~+85		°C
	Relative Humidity	5%~95% Non-condensing		



16ch DWDM MUX/DEMUX



Function

- 16 channel DWDM optical signal multiplexed into one fiber
- 16 channel optical signal de-multiplexer to single-wavelength signals

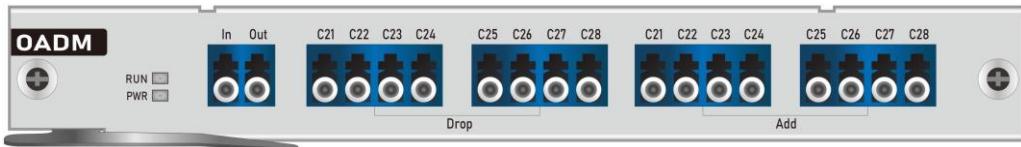
Highlight

- Support 4 CH / 8 CH / 16 CH
- Plug'n play: requires no configuration
- Green product: completely passive, needs no power and no cooling
- Low insertion loss
 - 4CH maximum insertion loss ≤1.8dB
 - 8 CH maximum insertion loss ≤3dB
 - 16CH maximum insertion loss ≤4.5dB
- High stability
 - Insertion loss is stable, independent of fiber parameters
 - Good characteristics,few affected by temperature
- High channel isolation
 - Adjacent isolation ≥25dB
 - Non-adjacent isolation ≥40dB

Specifications

Parameter	Technical Indicators			Unit		
Channel Wavelength	ITU Grid			nm		
Channel Spacing	100GHz			Ghz		
Channel	4	8	16			
Channel Passband	> 0.3			nm		
Insertion Loss Flatness	<0.5			dB		
Insertion Loss	<1.8	<3.0	<4.5			
Channel Isolation	Adjacent	25			dB	
	Non-adjacent	40				
Polarization Dependent Loss	<0.1			dB		
Directivity	>50			dB		
Return Loss	>45			dBm		
Maximum Power Handling	26			mw		
Dimension	191 (W) x 253 (D) x 20 (H)			mm		
Environment	Operating Temperature	-10°C~+60			°C	
	Storage Temperature	-40°C~+85				
	Relative Humidity	5%~95% Non-condensing				

DWDM Passive Optical Add/Drop Multiplexers



Function

- DWDM Passive Optical Add/Drop Multiplexers
- Achieve 2/4/8 channel add and drop

Highlight

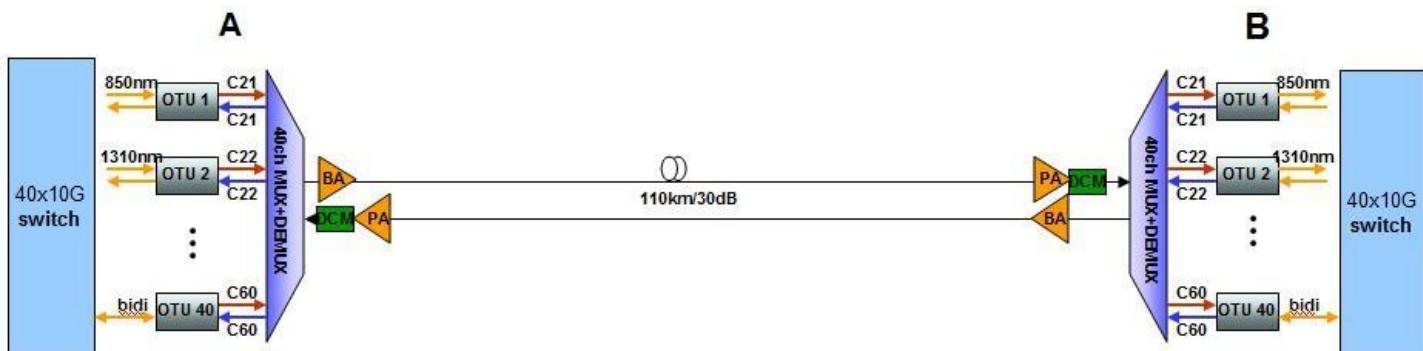
- Support 2/4/8 channel add and drop
- Plug'n play: requires no configuration
- Green product: completely passive, needs no power and no cooling
- Low insertion loss
 - 2CH maximum insertion loss ≤1.5dB
 - 4 CH maximum insertion loss ≤3dB
 - 8CH maximum insertion loss ≤4.5dB
- High channel isolation
 - Adjacent isolation ≥25dB
 - Non-adjacent isolation ≥35dB

Specifications

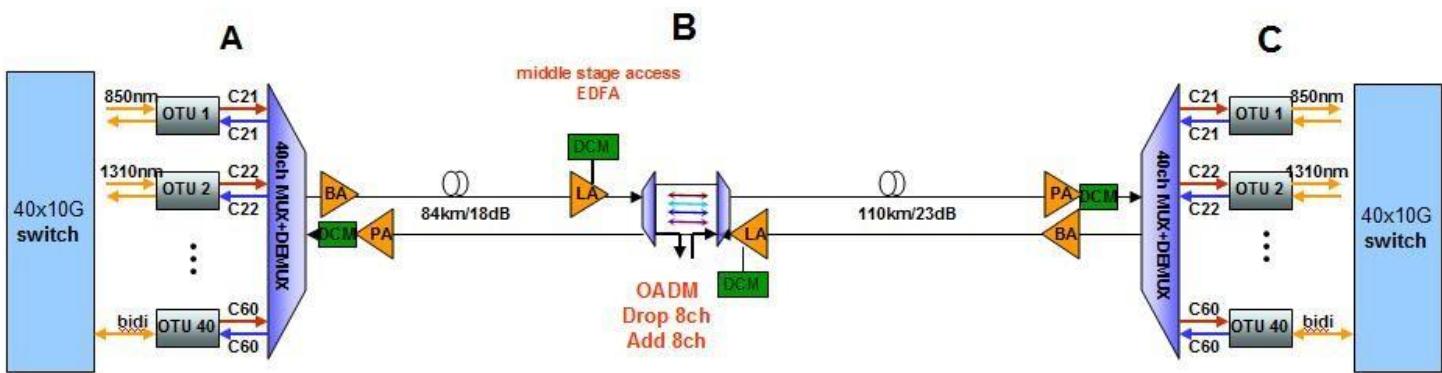
Parameter		Technical Indicators			Unit
Channel Wavelength		ITU Grid			nm
Channel Spacing		100GHz			Ghz
Channel		2	4	8	
Channel Passband		> 0.3			nm
Insertion Loss Flatness		<0.5			dB
Insertion Loss	In—Drop/Add-Out	<0.9	<1.5	<3	(dB)
	In---out	<1.5	<3.0	<4.5	(dB)
Channel Isolation	Adjacent	25			dB
	Non-adjacent	35			dB
Polarization Dependent Loss		<0.1			dB
Directivity		>50			dB
Return Loss		>45			dBm
Maximum Power Handling		26			mw
Dimension		191 (W) x 253 (D) x 20 (H)			mm
Environment	Operating Temperature	-10°C~+60			°C
	Storage Temperature	-40°C~+85			°C
	Relative Humidity	5%~95% Non-condensing			

DWDM transmission solution

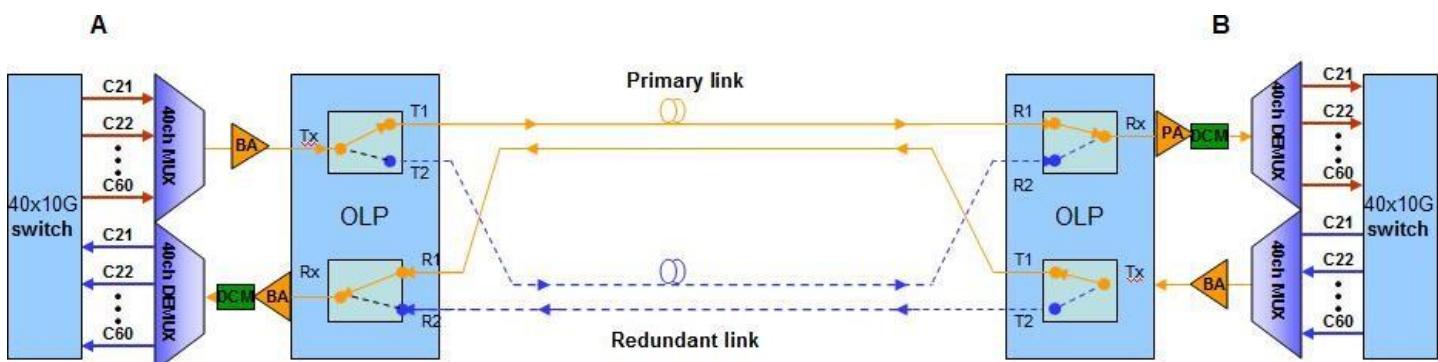
DWDM peer-to-peer case



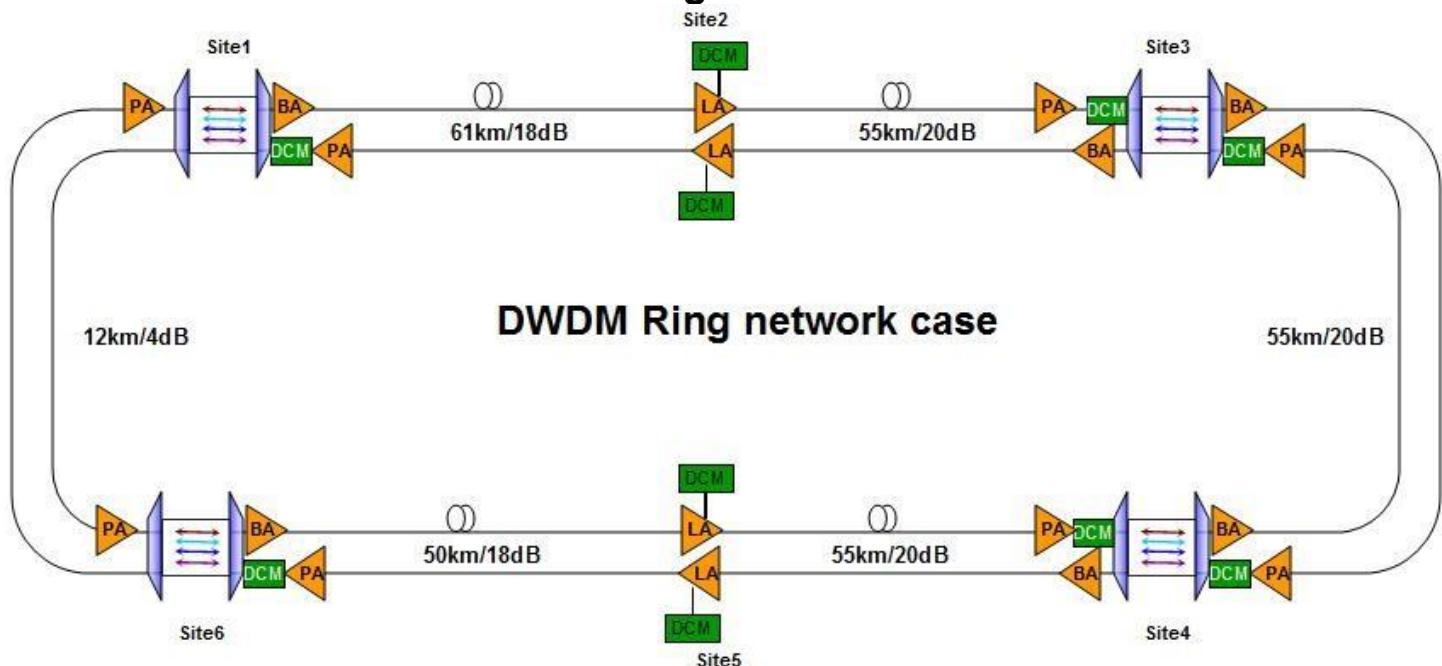
DWDM chain network case



DWDM+OLP optical line protection Case



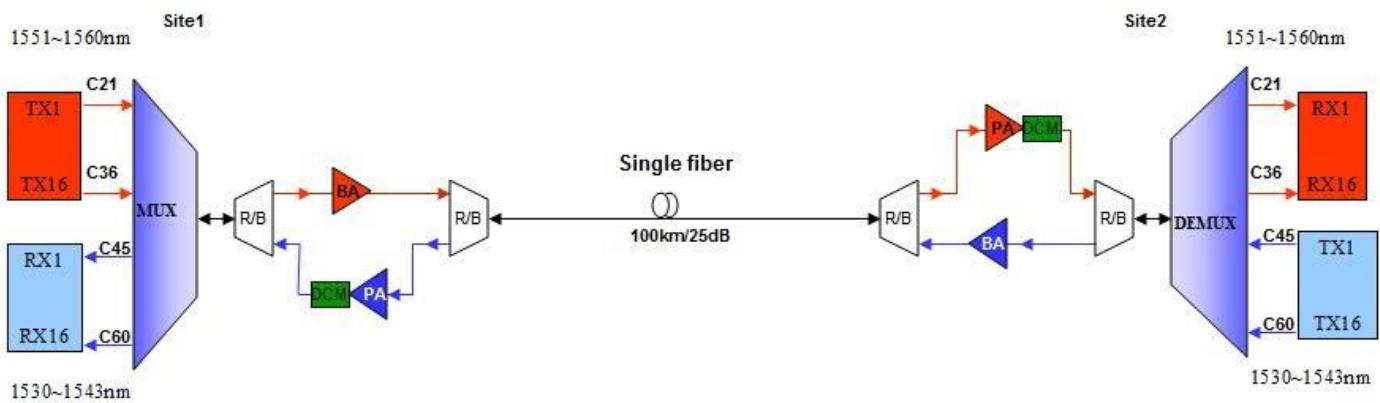
DWDM Ring network case



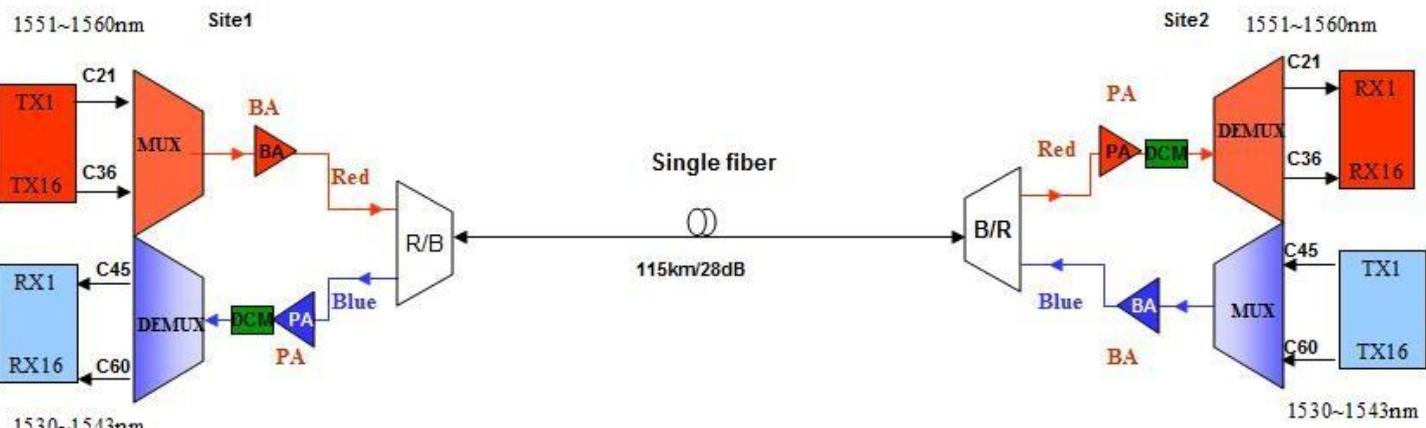
DWDM Ring network case

DWDM single fiber bidirectional networking case

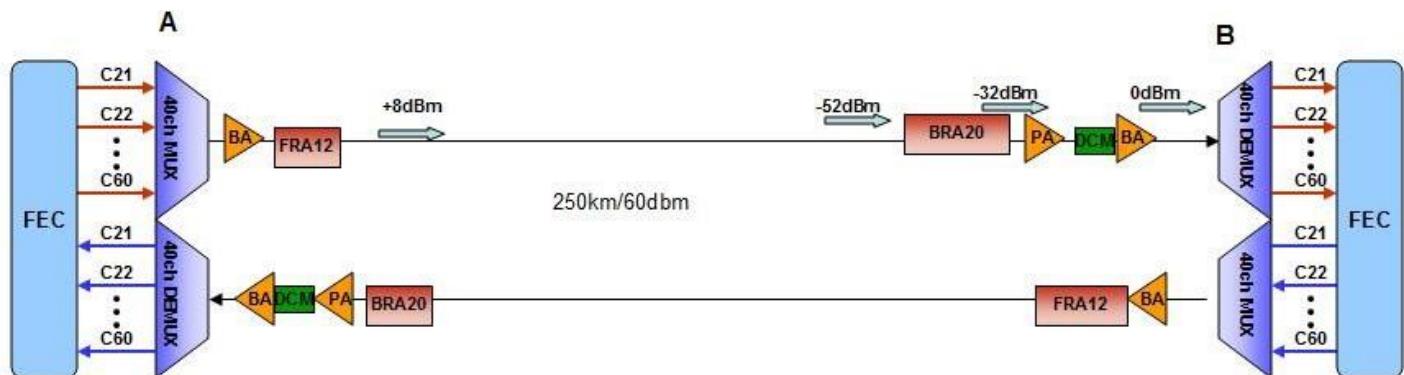
single MUX/DEMUX



DWDM single fiber bidirectional networking case MUX & DEMUX



DWDM ultra long distance solution



Icon description

