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FS M6200 Series Data Sheet

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| Product Overview

M6200 series platform supports 7/15/18x slots for OEO/EDFA/DCM/MUX/DEMUX/OLP/R&B Filter modules in a compact 2/5RU form factor. It supports flexible 1G/10G/40G/100G interface speeds. With a variety of optical layer boards, the M6200 series can meet multiple service transmission demands and achieve efficient and stable transmission. It is suitable for DWDM dual-fiber/DWDM single-fiber/optical cable monitoring systems to provide cost-effective and flexible WDM solutions.

The M6200 series can support WEB management that enables service configuration and performance monitoring. It can support unified management of network nodes via an easy-to-use system on browser and performance monitoring, alerts and optical power monitoring in real time, which can help you manage your network and devices more simply and conveniently.

| Features and Benefits

- Flexible 1G/10G/40G/100G Interface Speeds
- Redundant Hot-pluggable 2x Main Control Cards, 2x AC/DC Power Supplies and 6/2x Fans
- Unified Management of Network Nodes via Easy-to-use System on Browser
- Provide Detailed Management Operation Records and Network Element Alarm Logs
- Support Performance Monitoring, Alerts and Optical Power Monitoring in Real Time
- Integrate Compact Modules into 2U Rack Mount Platform, Low Consumption, Low Costs
- Various Optical Layer and Electrical Layer Boards for Access and Aggregation Networks

Product Details

Product configurations



- ① ⑥ ⑧ For M6200 Series Modules ⑦ ⑧ For Hot-swappable NMU Main Control Card
 ⑨ For Hot-swappable Cooling Fan

Figure 1.

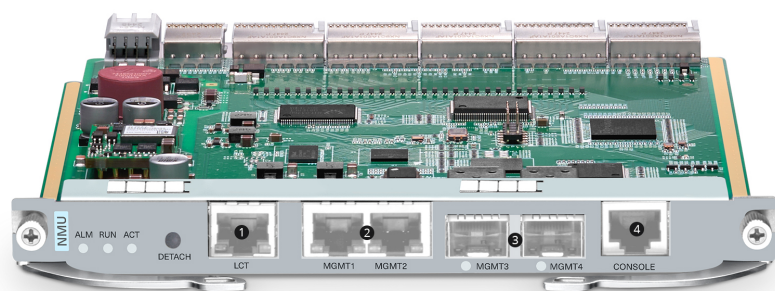
M6200-CH2U, 7 Slots 2U Managed Chassis Unloaded Platform, Redundant AC/DC PSUs, Support WEB/SNMP Management



- ① ② For Hot-swappable NMU Main Control Card ③ ⑫ For M6200 Series Modules
 ⑬ ⑮ For 1+1 Redundant Power Supplies ⑯ For Hot-swappable Cooling Fan

Figure 2.

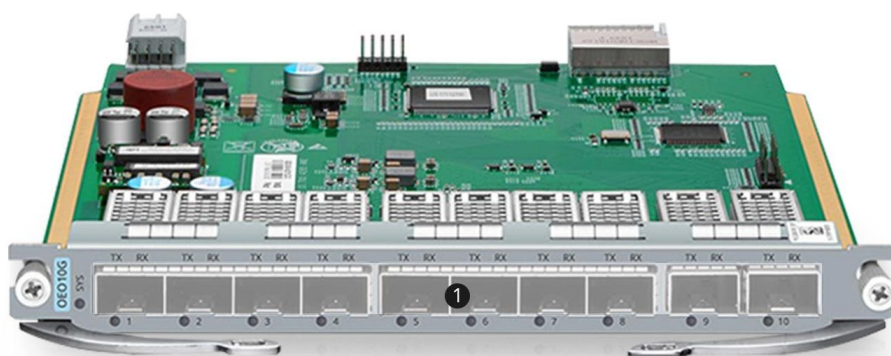
M6200-CH5U, 15/18 Slots 5U Managed Chassis Unloaded Platform, Redundant AC/DC PSUs, Support WEB/SNMP Management



- ① LCT Port ② 2x RJ45 ETH Port ③ 2x SFP Port ④ Console

Figure 3.

M6200-NMU, Network Management Unit for M6200 Managed Chassis, 2 x 100Base-X SFP Ports, 2 x 10/100Base-T RJ45 Ports



- ① 10× 100M/1G/10G SFP+ Ports

Figure 4.

M6200-OEO10G, 5 Channels WDM Transponder (Converter) for M6200 Managed Chassis, 10 SFP/SFP+ Slots

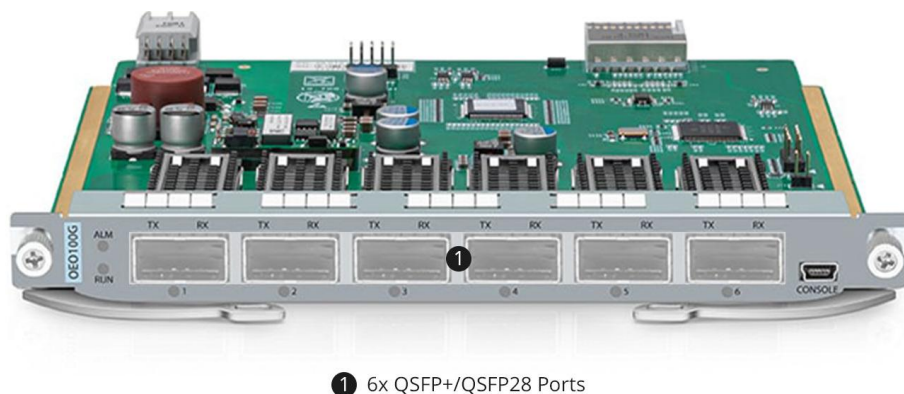


Figure 5.

M6200-OEO100G, 3 Channels WDM Transponder (Converter) for M6200 Managed Chassis, 6 QSFP28/QSFP+ Slots



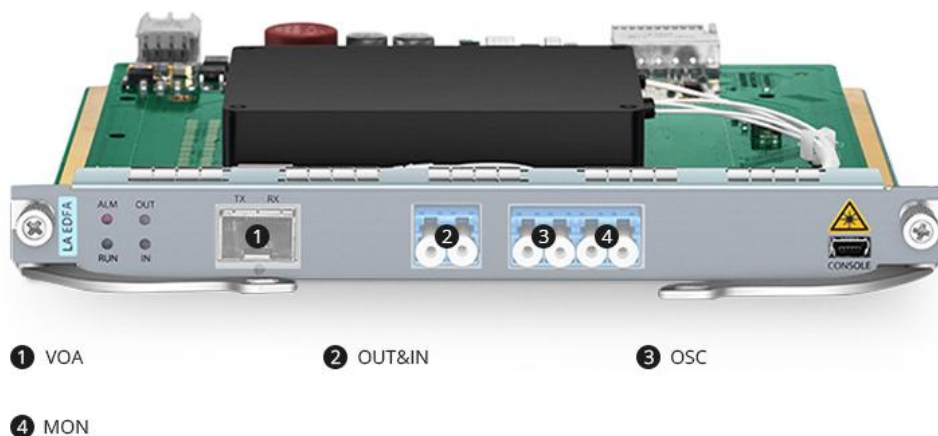
Figure 6.

M6200-25PA, 20-30dB Gain C-band DWDM EDFA Pre-Amplifier for M6200 Managed Chassis, 16dBm Output

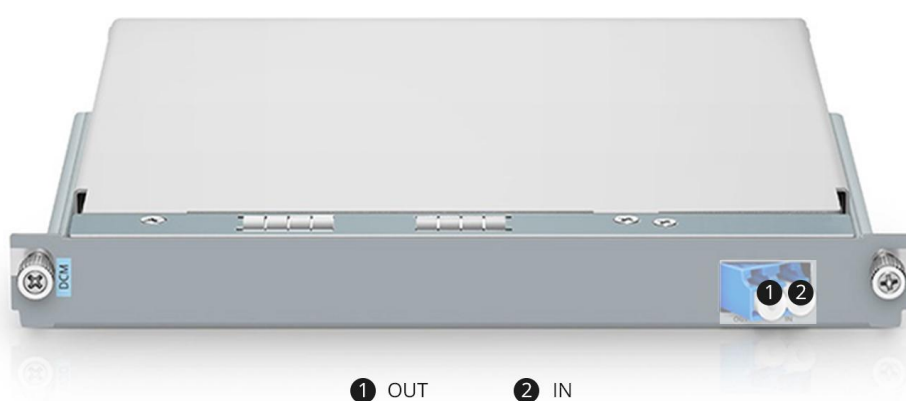


Figure 7.

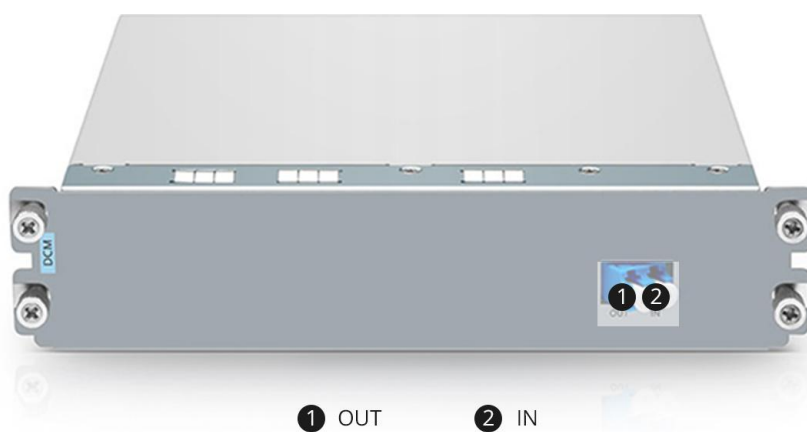
M6200-20BA, 11-21dB Gain C-band DWDM EDFA Booster Amplifier for M6200 Managed Chassis, 20dBm Output

**Figure 8.**

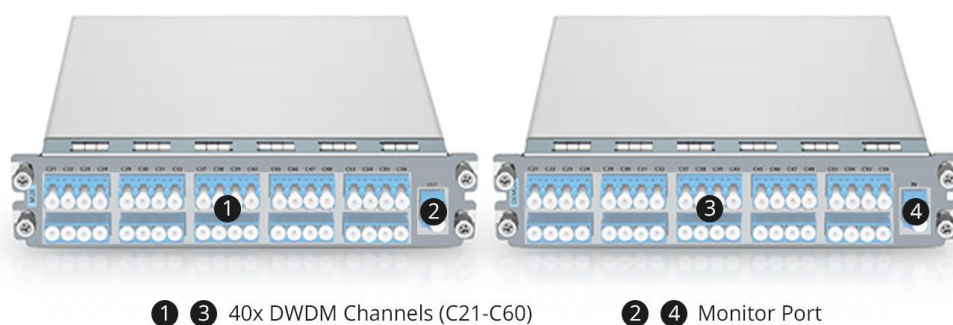
M6200-20LA, 20-30dB Gain DWDM EDFA In-line Amplifier for M6200 Managed Chassis, 20dBm Output

**Figure 9.**

M6200-DCM40, 40KM DCF-based Passive Dispersion Compensation Module for M6200 Managed Chassis, 1-Slot, LC/UPC

**Figure 10.**

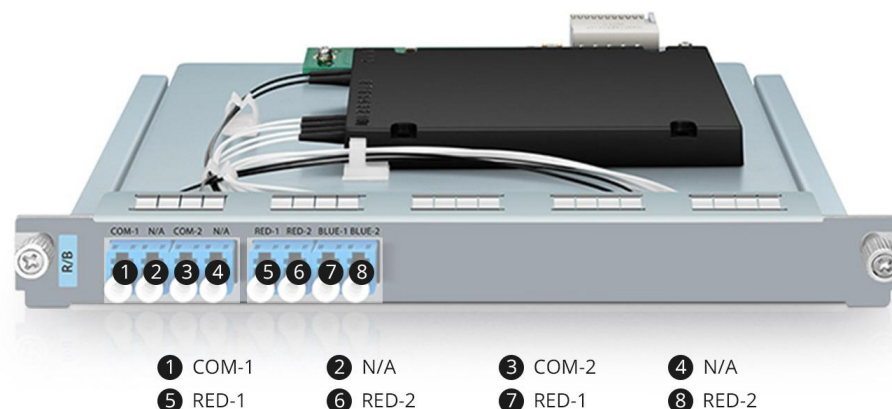
M6200-DCM80, 80KM DCF-based Passive Dispersion Compensation Module for M6200 Managed Chassis

**Figure 11.**

M6200-D2160M, 40 Channels 100GHz C21-C60 Active, Dual Fiber DWDM Mux and Demux with Monitor Port, Pluggable Module, LC/UPC

**Figure 12.**

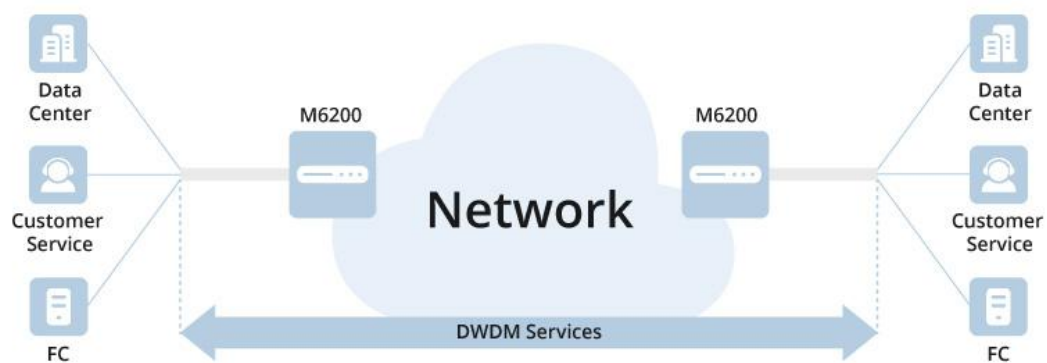
M6200-OLP2, 1 + 1 Optical Line Protection Switch (OLP) for M6200 Managed Chassis

**Figure 13.**

M6200-RB, 1 x 2 Single Fiber DWDM Red/Blue Filter for M6200 Managed Chassis

Application

M6200 series can build a multi-service and multi-rate access platform for customers and can combine CWDM/DWDM WDM technology, ultra-long station distance transmission technology, OLP optical line protection technology, etc., to provide customers with one-stop solutions for optical communications. The platform supports dual power backup and 1+1 protection of network management card, which has high reliability performance. Additionally, you can easily check important data, alarms, reports, and much more through WEB management anytime on-site or remotely.



Technical Specification

Table 1. Technical Specification of M6200 Chassis

Parameter	M6200-CH2U	M6200-CH5U
Physical Specifications		
Power Redundancy	1+1 Backup Power Supply	1+1 Backup Power Supply
Power Supply	Dual AC Power, 100~240VAC, Hot-swappable Power Supply Dual DC Power, -36~-72VDC, Hot-swappable Power Supply	Dual AC Power, 100~240VAC, Hot-swappable Power Supply Dual DC Power, -36~-72VDC, Hot-swappable Power Supply
Power Consumption	Max. 300W	Max. 350W
Cooling Unit	1x Fan Module, Hot-swappable (6/2 Fans for AC/DC Chassis)	1x Fan Module, Hot-swappable (6 Fans for AC/DC Chassis)
Dimensions (HxWxD)	3.46"x17.48"x12.80" (88x444x325mm)	8.74"x17.48"x8.86" (222x444x225mm)
Weight	8.53kg	11.2kg
Port		
Slot Count	7-slot for AC/DC Chassis	15-slot for AC Chassis 18-slot for AC Chassis
Controller Card Slots*	2	2
Network Interface	1x Console Port 2x SFP LAN Ports 100Base-X 4x RJ45 LAN Ports 10/100Base-T	1x Console Port 2x SFP LAN Ports 100Base-X 4x RJ45 LAN Ports 10/100Base-T
Management		
Management Type	WEB, SNMP v2	WEB, SNMP v2
Management Software	M Series NMS Management Software	
Environmental		
Operating Temperature	-10 to 50° C (14 to 122° F)	-10 to 50° C (14 to 122° F)
Storage Temperature	-10 to 70° C (14 to 158° F)	-10 to 70° C (14 to 158° F)
Relative Humidity	10% to 90%, No Condensing	10% to 90%, No Condensing
Ingress Protection	Non-waterproof	Non-waterproof

* Note: The chassis comes with one NMU main control card.

Table 2. Technical Specification of M6200 NMU

Parameter	M6200-NMU	
Physical Specifications		
Power Redundancy	1+1 Backup	
Power Consumption	Max. 10W	
Weight	0.35kg	
Matching Chassis	M6200-CH2U M6200-CH5U	
Port		
Network Interface	1x LCT Port 1x Console port 2x SFP LAN ports 100Base-X 2x RJ45 LAN ports 10/100Base-T	
2x SFP Ports Speed	10/100Mbps	
2x RJ45 Ports Speed	100Mbps	
Visual Indicator		
ALM	Always ON: There is an alarm on the power supply, the fan or the NMU Module Always OFF: There is no alarm.	
RUN	Quick Flash: The module works normally. Always OFF: The module is not normally enabled.	
ACT	Always ON: The module is the primary module. Always OFF: The module is the secondary module.	
Management		
Management Type	WEB, SNMP v2	
Management Software	M Series NMS Management Software	
Environmental		
Operating Temperature	0 to 50° C (32 to 122° F)	
Storage Temperature	-10 to 70° C (14 to 158° F)	

Table 3. Technical Specification of Transponder

Parameter	M6200-OEO10G	M6200-OEO100G
Interface		
Transmission Speed	1.25G to 11.1G	40G/100G
Interface Type	SFP/SFP+	QSFP28/QSFP+
Transceiver Slot Number	10	6
Service Channel Number	5	3
Client Protocols	SONET/SDH, Ethernet, FC, STM, OTU	Ethernet
Visual Indicator		
SYS	Slow Flash of Green Light: There is no alarm of the module. Quick Flash of Red Light: The module type does not match. Slow Flash of Red Light: There is an alarm of the module. Always Red: The module is enabled.	/
ALM	/	Always Red: There is an alarm of the Power, Fan and NMU module. Quick Flash of Red Light: The module type does not match. Always OFF: There is no alarm of the module.
RUN	/	Slow Flash of Green Light: The module is normal. Always OFF: The module does not work.
Port	Always Green: There is no LOS alarm of the port. Always Red: There is a LOS alarm of the port. Always OFF: The port is disabled.	Always Green: There is no LOS alarm of the port. Always Red: There is a LOS alarm of the port. Quick Flash of Red Light: The transceiver does not match. Always OFF: The port is disabled.
Physical Specifications		
Power Consumption	<15W	<25W
Latency	1.8μs	30μs
Weight	0.365kg	0.33kg
Housing	Pluggable module (Occupies 1 slot in M6200 series managed chassis)	Pluggable module (Occupies 1 slot in M6200 series managed chassis)

Parameter	M6200-OEO10G	M6200-OEO100G
Environmental		
Operating Temperature	0 to 50° C (32 to 122° F)	0 to 50° C (32 to 122° F)
Storage Temperature	-10 to 70° C (14 to 158° F)	-10 to 70° C (14 to 158° F)

Transponder

The optical transponder can be deployed in seamless integration of different fiber types by converting incoming optical signal into WDM wavelength, multimode fiber to single-mode fiber, dual fiber to single fiber. It can also be used as a repeater to convert the weak optical signals into the strong optical signal for continuous transmission.

Wavelength Conversion

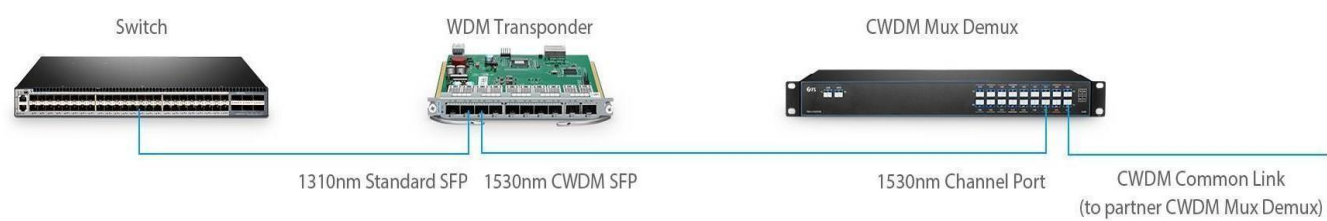


Table 4. Technical Specification of EDFA

Parameter	M6200-25PA	M6200-20BA	M6200-20LA
Optical Specifications			
Operation Wavelength	1529nm-1561nm (C-Band)	1529nm-1561nm (C-Band)	1529nm-1561nm (C-Band)
Optical Gain	20-30dB	11-21dB	20-30dB
Total Input Power	-32dBm~-4dBm	-25dBm~+7dBm	-32dBm~0dBm
Saturated Output Power	≤16dBm	≤20dBm	≤20dBm
Noise Figure	<5.5dB	<5.5dB	<5.5dB
Gain Flatness	<1.5dB	<1.5dB	<1.5dB
Polarization Dependent Loss	<0.5dB	<0.5dB	<0.5dB
Gain Reponse Time	AGC<200ms APC<100ms	AGC<200ms APC<100ms	AGC<200ms APC<100ms
Operation Mode *	AGC(Automatic Gain Control)/ APC(Automatic Power Control)	AGC(Automatic Gain Control)/ APC(Automatic Power Control)	AGC(Automatic Gain Control)/ APC(Automatic Power Control)
Port			
Optical Connector	LC/UPC	LC/UPC	LC/UPC
Monitoring Port	OSC/Mon port	OSC/Mon port	OSC/Mon port
VOA Port *	SFP VOA module	SFP VOA module	SFP VOA module
Visual Indicator			
ALM	Always ON: There is an alarm of the power supply, the fan or the NMU module. Quick Flash: The module type does not match.		
RUN	Always OFF: The module is not normally enabled.		
IN	Always Red: The is a LOS alarm occurs at the port.		
OUT	Always OFF: The port is not enabled.		

* Note:

1. The operation mode of EDFA can be switched between AGC and APC via NMS management software.
2. SFP VOA module is an optional product, which is not included in DWDM EDFA. Customers can buy it on demand.

Parameter	M6200-25PA	M6200-20BA	M6200-20LA
Physical Specifications			
Power Consumption	≤15W	≤15W	≤15W
Weight	0.405kg	0.39kg	0.41kg
Housing	Pluggable module (Occupies 1-slot in M6200 series managed chassis)	Pluggable module (Occupies 1-slot in M6200 series managed chassis)	Pluggable module (Occupies 1-slot in M6200 series managed chassis)
Environmental			
Operating Temperature	-10 to 50° C (14 to 122° F)	-10 to 50° C (14 to 122° F)	-10 to 50° C (14 to 122° F)
Storage Temperature	-20 to 80° C (-4 to 176° F)	-20 to 80° C (-4 to 176° F)	-20 to 80° C (-4 to 176° F)

EDFA

(1) Pre-Amplifier (PA) EDFA is typically applied in the front of receiver for improving sensitivity of the receiver and increasing the optical power level of DWDM wavelength in the DWDM long-haul transmission link.



(2) Booster Amplifier (BA) EDFA is designed to boost the power of multiple wavelength signals after multiplexing. It's usually placed at the beginning of the DWDM transmission link.



(3) In-Line Amplifier (LA) EDFA is designed to amplify all optical signals and compensate the insertion loss of optical devices or attenuation loss of optical fiber lines in DWDM system. It is usually placed at the middle end of DWDM transmission link.



Table 5. Technical Specification of DCM

Parameter	M6200-DCM40	M6200-DCM80
Optical Specifications		
Compensated Length	40km	80km
Wavelength	1525nm~1565nm	1525nm~1565nm
Dispersion Compensator @1545nm	-670 ± 20 ps/nm	-1340 ± 20 ps/nm
Insertion Loss	≤ 4.0 dB	≤ 7.2 dB
Relative Dispersion Slop @1545nm	$0.0036 \pm 20\%$ nm ⁻¹	$0.0036 \pm 20\%$ nm ⁻¹
Brillouin Scattering Threshold	≥ 6 dBm	≥ 6 dBm
Nonlinear System (n^2 / A_{eff})	$\leq 1.4 \times 10^{-9}$ W ⁻¹	$\leq 1.4 \times 10^{-9}$ W ⁻¹
Effective Area (A_{eff})	≥ 20 μ m ²	≥ 20 μ m ²
Polarization Dependent Loss	≤ 0.1 dB	≤ 0.1 dB
Polarization Mode Dispersion	≤ 0.3 ps	≤ 0.5 ps
Port		
Connector Type	LC/UPC	LC/UPC
Physical Specifications		
Weight	0.92kg	1.15kg
Housing	Pluggable module (Occupies 1 slot in M6200 series managed chassis)	Pluggable module (Occupies 2 slots in M6200 series managed chassis)
Environmental		
Operating Temperature	-5 to 70° C (23 to 158° F)	-5 to 70° C (23 to 158° F)
Storage Temperature	-40 to 85° C (-40 to 185° F)	-40 to 85° C (-40 to 185° F)
Relative Humidity	<85%	<85%

Dispersion Compensation Module

DCM is needed to fix the form of optical signals that are deformed by chromatic dispersion in long-haul transmission. It can effectively neutralize the fiber dispersion before the signal reaches the receiver, which provides a simple, reliable, and cost-effective long-haul transport solution, making signals go further without regeneration.

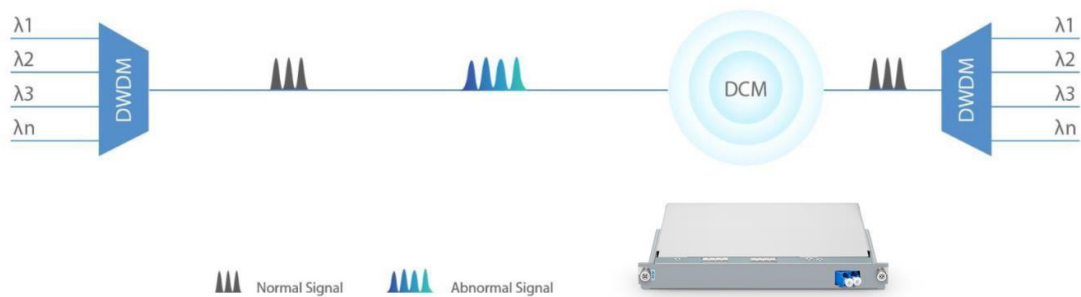


Table 6. Technical Specification of MUX&DEMUX

Parameter	M6200-D2160M
Optical Specifications	
ITU Channel	40 channels C21-C60
Operating Wavelength	1520-1570nm
Channel Spacing	100GHz (0.8nm)
Channel Passband	$\pm 0.11\text{nm}$
Link Loss (A)	$\leq 10.0\text{dB}$
Insertion Loss (B)	$\leq 6.0\text{dB}$, 5.5dB Typical
Insertion Loss (1% Mon)	$\leq 26\text{dB}$
Filter Technology	AAWG (Gaussian)
Non-adjacent Channel Isolation	Non-adjacent $\geq 30\text{dB}$
Adjacent Channel Isolation	$\geq 25\text{dB}$
Return Loss	$\geq 40\text{dB}$
Directivity	$\geq 50\text{dB}$
Polarization Dependent Loss	$\leq 0.5\text{dB}$
Polarization Mode Dispersion	$\leq 0.5\text{ps}$
Physical Specifications	
Weight	0.895kg
Housing	Pluggable module (Occupies 4 slots in M6200 series managed chassis)
Environmental	
Operating Temperature	-10 to 50° C (14 to 122° F)
Storage Temperature	-20 to 85° C (-4 to 185° F)

MUX&DEMUX

The 40ch DWDM Mux Demux adopts high quality AAWG Gaussian technology, which can achieve a long distance transmission in a point-to-point network by using EDFA and DCM.

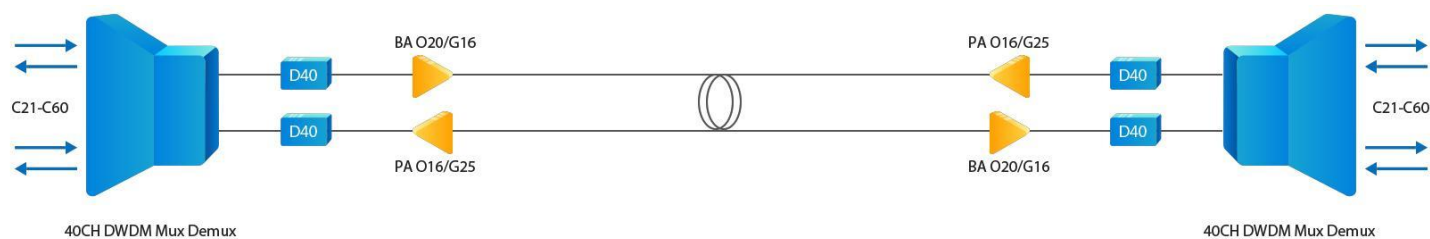


Table 7. Technical Specification of OLP

Parameter	M6200-OLP2
Optical Specifications	
Operating Wavelength	1310±50nm/1550±50nm
Monitoring Power Range	+25~-50dBm
Insertion Loss	Tx<3.8dB, Rx<1.2dB
Switching Speed	≤25ms
Monitoring Power Accuracy	±0.5dBm
Monitoring Power Resolution	±0.01dB
Return Loss	≥45dB
Polarization Dependent Loss	≤0.1dB
Wavelength Dependent Loss	≤0.25dB
Port	
Connector Type	LC/UPC
Visual Indicator	
ALM	Always ON: There is an alarm of the sub-module. Quick Flash: The module type does not match. Always OFF: The alarm does not exist.
RUN	Slow Flash: The module works normally. Always OFF: The module is not normally enabled.
A/F	Always ON: The module is in automatic mode. Always OFF: The module is in manual mode.
P/S	Always ON: The line is in primary channel state. Always OFF: The line is in secondary channel state.
TX/R1/R2	Always ON: The line power is normal. Always OFF: The line power is lower than the threshold.

Parameter	M6200-OLP2
Physical Specifications	
Maximum Optical Power Load	5W
Housing	Pluggable module (Occupies 1-slot in M6200 series managed chassis)
Weight	0.44kg
Environmental	
Operating Temperature	-10 to 50° C (14 to 122° F)
Storage Temperature	-20 to 80° C (-4 to 176° F)

Optical Line Protection

1+1 Optical Line Protection Switch (OLP) is designed to protect transmission network from link failures, using an optical splitter to bridge the optical signal to working fiber and protection fiber.

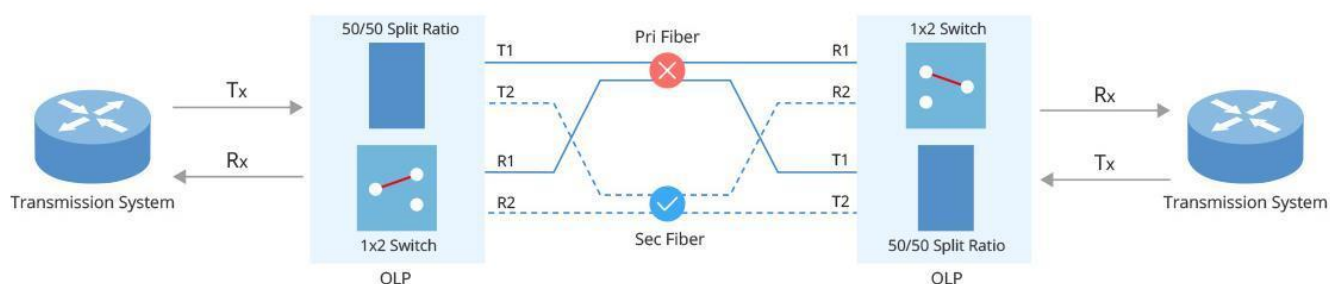


Table 8. Technical Specification of R&B

Parameter	M6200-RB
Optical Specifications	
Operating Wavelength	C-Band
Pass Band Wavelength (Red)	CH45-CH60 (1529.35~1541.55nm)
Reflection Band Wavelength (Blue)	CH21-CH36 (1548.31~1560.81nm)
Pass Channel Insertion Loss *	≤0.8dB
Reflection Channel Insertion Loss *	≤0.6dB
Channel Ripple	≤0.3dB
Adjacent Channel Isolation	≥30dB
Non-adjacent Channel Isolation	≥12dB
Polarization Dependent Loss	≤0.1dB
Polarization Mode Dispersion	≤0.1ps/nm
Return Loss	≥50dB
Directivity	≥55dB
Port	
Connector Type	LC/UPC
Physical Specifications	
Power Handling	≤300mW
Housing	Pluggable module (Occupies 1-slot in M6200 series managed chassis)
Weight	0.433kg
Environmental	
Operating Temperature	-5 to 70° C (23 to 158° F)
Storage Temperature	-40 to 85° C (-40 to 185° F)

* Note: The insertion loss is specified with connectors.

Red/Blue Filter

M6200 series 1x2 Red/Blue DWDM Splitter can combine the Red transmit channels and the Blue receive channels onto a single fiber, and makes it possible to utilize single fiber strand for both transmitting and receiving, thus significantly maximizing investment and decreasing costs.

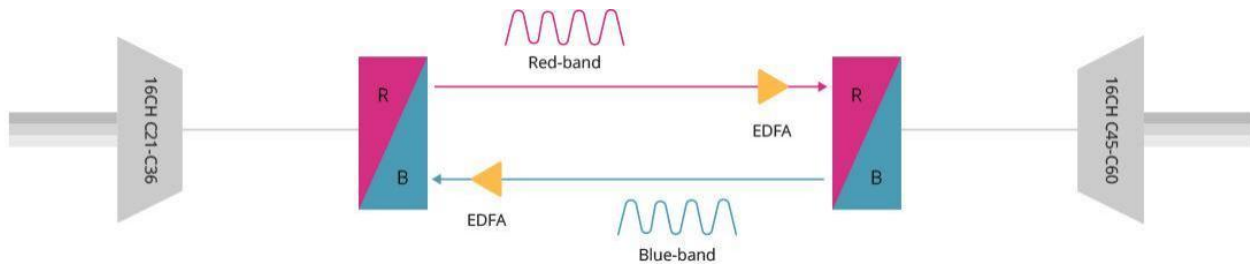


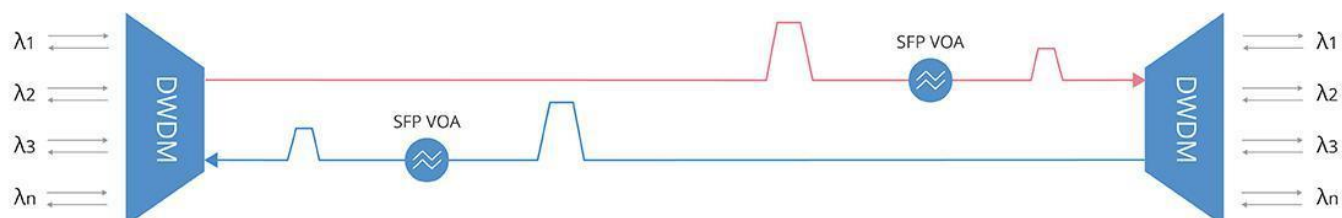
Table 9. Technical Specification of VOA

Parameter	M6200-SFPVOA
Optical Specifications	
Wavelength Range	1525~1570nm
Insertion Loss @ with PD *	≤ 2.5dB
Attenuation Dynamic Range	0~20dB
Wavelength Dependent Loss	0~10dB: 0.6dB 10~20dB: 1.5dB
Polarization Dependent Loss	0~10dB: 0.3dB 10~20dB: 0.5dB
Attenuation Accuracy	0~10dB: ±1.5dB 10~20dB: ±2dB
Power Monitor Accuracy	±1dB
Attenuation Response Time	≤300ms
Return Loss	40dB
Port	
Connector Type	LC/UPC
Physical Specifications	
Housing	SFP (Use with M6200 Series DWDM EDFA)
Weight	0.02kg
Environmental	
Operating Temperature	-5 to 70° C (23 to 158° F)
Storage Temperature	-40 to 85° C (-40 to 185° F)

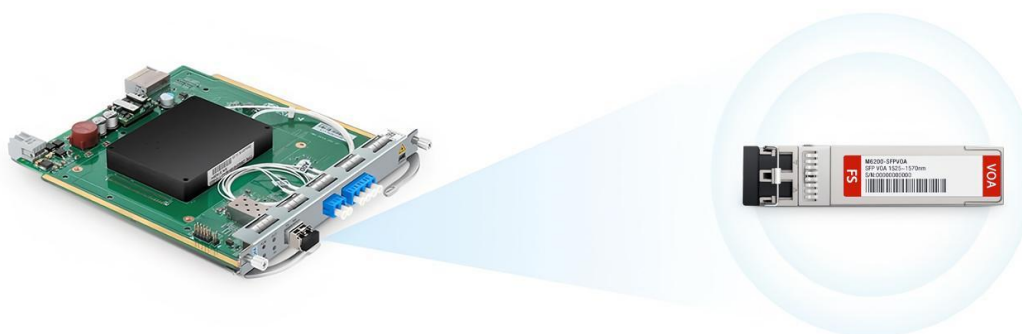
* Note: "With PD" means the SFP VOA module can monitor the input optical power.

Variable Optical Attenuator

M6200 series Variable Optical Attenuator module is designed to use with M6200 series EDFA for the situation where optical power is required strict control in the network, which can achieve remote online attenuation adjustment by M6200 series NMS network management software.



M6200 series Variable Optical Attenuator module is used on the VOA port of M6200 series DWDM EDFA.



Ordering Information

M6200 Series		Product Description
Chassis	M6200-CH2U	M6200-CH2U, 7 Slots 2U Managed Chassis Unloaded Platform, Redundant AC PSUs, Support WEB/SNMP Management#107371
	M6200-CH2U	M6200-CH2U, 7 Slots 2U Managed Chassis Unloaded Platform, Redundant DC PSUs, Support WEB/SNMP Management#204099
	M6200-CH5U	M6200-CH5U, 15 Slots 5U Managed Chassis Unloaded Platform, Redundant AC PSUs, Support WEB/SNMP Management #111052
	M6200-CH5U	M6200-CH5U, 18 Slots 5U Managed Chassis Unloaded Platform, Redundant DC PSUs, Support WEB/SNMP Management#188015
40CH DWDM Mux Demux	M6200-CH2U	Customized M6200-CH2U, 7 Slots 2U Managed Chassis Platform, Redundant AC/DC PSUs, Support WEB/SNMP Management#190252
	M6200-DCM80	M6200-DCM80, C-Band 40km DCF-based Passive Dispersion Compensation Module for M6200 Managed Chassis#119071
	M6200-D2160M	M6200-D2160M, 40 Channels 100GHz C21-C60 Active, Dual Fiber DWDM Mux and Demux with Monitor Port, Pluggable Module, LC/UPC#109705
Transponder	M6200-OEO10G	M6200-OEO10G, 5 Channels WDM Transponder (Converter) for M6200 Managed Chassis, 10 SFP/SFP+ Slots#107365
	M6200-OEO100G	M6200-OEO100G, 3 Channels WDM Transponder (Converter) for M6200 Managed Chassis, 6 QSFP28/QSFP+ Slots#129994
EDFA Optical Amplifier	M6200-25PA	M6200-25PA, 20-30dB Gain C-band DWDM EDFA Pre-Amplifier for M6200 Managed Chassis, 16dBm Output#107367
	M6200-20BA	M6200-20BA, 11-21dB Gain C-band DWDM EDFA Booster Amplifier for M6200 Managed Chassis, 20dBm Output#107466
	M6200-20LA	M6200-20LA, 20-30dB Gain DWDM EDFA In-line Amplifier for M6200 Managed Chassis, 20dBm Output#121328
Dispersion Compensation	M6200-DCM40	M6200-DCM40, C-Band 40km DCF-based Passive Dispersion Compensation Module for M6200 Managed Chassis#118368
	M6200-D2160M	M6200-D2160M, 40 Channels 100GHz C21-C60 Active, Dual Fiber DWDM Mux and Demux with Monitor Port, Pluggable Module, LC/UPC, Integrated with M6200 Series 2U Managed Chassis#120424
Red/Blue Filter	M6200-RB	M6200-RB, 1 x 2 Single Fiber DWDM Splitter Red/Blue C-band Filter for M6200 Managed Chassis#107369
Optical Protection	M6200-OLP2	M6200-OLP2, 1 + 1 Optical Line Protection Switch (OLP) for M6200 Managed Chassis#107368
Variable Attenuator	M6200-SFPVOA	M6200-SFPVOA, SFP Variable Optical Attenuator Module#107373



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