

25dB Variable Gain Pre-Amplifier DWDM EDFA C-band 16dBm Output

Pluggable Module for M6200 Series Multi-Service Transport System



Description

M6200 series variable gain pre-amplifier DWDM EDFA provides flattened gain across the C-band, low noise figure, and dynamic gain range. And it usually operates at the receiving end of an optical link to compensate for losses in a demultiplexer located near the optical receiver for long haul DWDM transmission system. Its kernel components are high-availability pump laser and high-performance gain flattening filters.

It is designed for all network segments (access, metro, regional and long haul) and network applications (telecom, cable and enterprise).

Features

- Support up to 40ch DWDM wavelengths in the C-band
- Support single and dual fiber operation
- Variable gain at dynamic range of $\pm 5\text{dB}$
- Embedded OSC for remote management and topology detection
- Monitor port for output power monitoring
- Support external SFP VOA for adjusting the line power
- Support AGC and APC operation modes
- Online status LEDs for monitoring and alarm on the EDFA working states
- Highly integrated with M6200 series management platform

Application

- C-band DWDM long haul transmission

Product Specifications

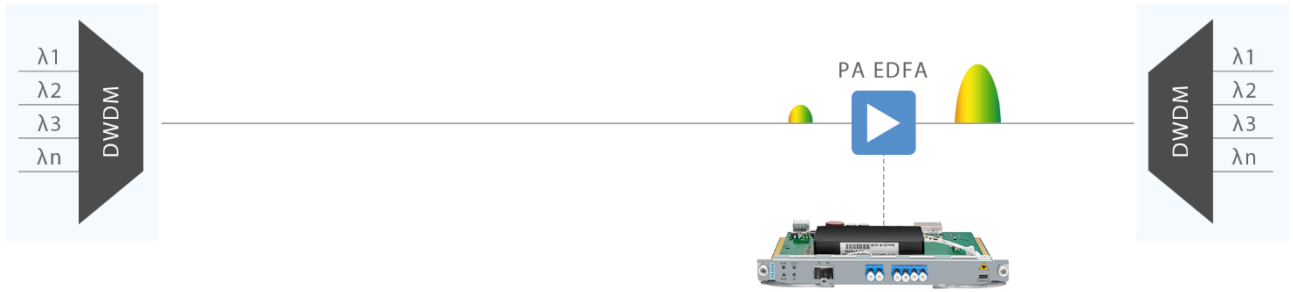
Parameter	Description
Amplifier Type	Pre-Amplifier
Operation Wavelength	1529nm~1561nm (C-Band)
Optical Gain	25dB
Dynamic Gain Range	± 5dB
Total Input Power	-32dBm~-4dBm
Saturated Output Power	≤16dBm
Noise Figure	<5.5dB
Gain Flatness	<1.5dB
Polarization Dependent Loss	<0.5dB
Gain Reponse Time	<10ms
Operation Mode *	AGC(Automatic Gain Control)/ APC(Automatic Power Control)
Optical Connector	LC/UPC
Monitoring Port	OSC/Mon port
VOA Port *	SFP VOA module
Management Type	WEB, SNMP v2
Housing	Pluggable module (Occupies 1-slot in M6200 series managed chassis)
Operating Temperature	-10 to 50° C
Storage Temperature	-20 to 80° C

* 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.

Applications

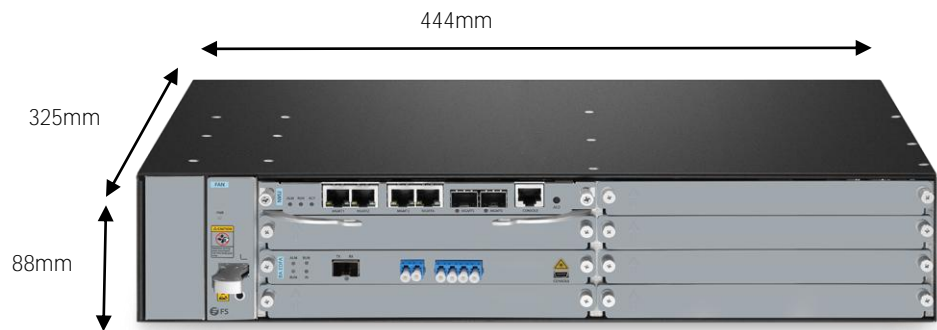
EDFA is needed to amplify the signal in long-haul transmission. Pre-Amplifier (PA) EDFA is typically applied in the front of receiver for improving sensitivity of the receiver and increasing the optical power level of DWDM wavelength in the DWDM long-haul transmission link.



Matching Chassis

M6200 series DWDM Pre-Amplifier EDFA pluggable module occupies one slot in M6200 series managed chassis.

- Width: 444mm (17.48")
- Height: 88mm (3.46")
- Depth: 325mm (12.80")



Ordering Information

ID	Description
#107366	20dBm Output Optical Booster Pluggable Module, 16dB Gain, LC/UPC
#107367	25dB Gain Optical Pre-Amplifier Pluggable Module, 16dBm Output, LC/UPC
#107368	1+1 Optical Line Protection Switch (OLP), LC/UPC
#107369	1x2 Single Fiber DWDM Red/Blue C Band Filter, Pluggable Module, LC/UPC
#107370	40KM DCF-based Passive Dispersion Compensation Module, LC/UPC
#107365	5 Channels Multi-Rate WDM Converter (Transponder), 10 SFP/SFP+ Slots, 100Mbps to 11.1Gbps Rate
#107373	SFP Variable Optical Attenuator Module for M6200 Series DWDM EDFA
#109705	40 Channels C21-C60 Dual Fiber DWDM Mux Demux with Monitor Port, Pluggable Module, LC/UPC
#107371	M6200 Series 2U Managed Chassis Unloaded, Supports up to 7x EDFA/OEO/OLP Module with Accessories
#111052	M6200 Series 5U Managed Chassis Unloaded, Supports up to 15x MUX/OEO/EDFA/DCM/OLP Module with Accessories

*Standard products are listed above. Customized specifications are available upon request.



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