

Erbium Doped Fiber Amplifier

(Booster Amplifier, Network Pluggable Card)

Product Description

The EDFA series pluggable module is built using semiconductor lasers, WDM, isolator, and erbium-doped fiber, and tap monitors. It features flat wavelength response by incorporating high-performance gain flattening filters; high stability with a feedback power control and a temperature compensating circuit. Customer configurations are available. The output power is variable by the Ethernet kernel GUI. The pluggable and the associated host net-control rack are standardized for local network build out.



Performance Specifications

Parameters	Spec			
	Min	Typical	Max	Unit
Wavelength	1528	1550	1605	nm
Input Power	-23	-13	12	dBm
Operation Wavelength	C12		C60	ITU
Single Channel Input		-13		dBm
Single Channel Output		1		dBm
Gain Range ^[2]			17	dBm
Saturated Output			17	dBm
Noise Index		4.5		dBm
Gain Flatness		1		dB
Polarization Dependent Gain ^[3]			0.3	dB
Polarization Mode Dispersion ^[3]		0.5		ps
Return Loss	45			dB
Input/output Isolation	35			dB
Control Mode		AGC(Automatic Gain Control)		dB
Adjustable Output Power		Yes		
Fiber Type		SMF-28e 9/125um NA = 0.13		
Working Temperature	-20		60	°C
Storage Temperature	-40		85	°C
Power Consumption			15	W

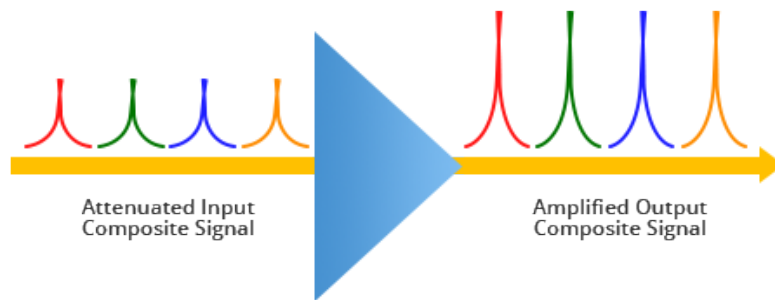
Features

- Low Noise
- High Output
- High Stability
- High Reliability
- Customizable

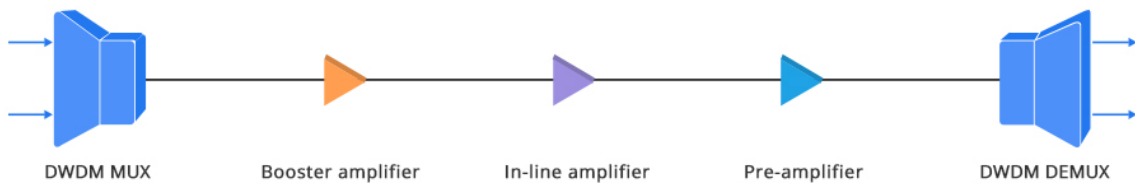
Applications

- Network
- Testing
- Protection
- Fiber Sensing

WDM Amplification Function Diagram



Three Types EDFAS for DWDM Network



Booster amplifier is designed to boost the power of multiple wavelength signals after multiplexing. It is usually placed at the beginning of the link.

In-line amplifier performs a repeater function in the middle of an optical link, which is widely used to compensate the attenuation of the link.

Pre-amplifier is typically applied in the front of receiver for improving sensitivity of the receiver and increasing the optical power level of DWDM channels.

Mechanical Dimension

Pluggable Module (Occupies 1 slot in the chassis)

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Control Interface

SNMPv1, Monitor Online, Simple Management Tool

Ordering Information

EDFC -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	1	<input type="checkbox"/>
	Type	Wavelength	Power Gain	Output Channel	Polarization	Package			Connector
	Booster=1	C= C Band L= L Band C+L=B Special= 0	17dBm=2 20 dBm=3 27 dBm =4 33 dBm =5 40 dBm =6 Special=0	One=1	Random=1 Maintain=2	Pluggable =3			None=1 FC/PC=2 FC/APC= 3 SC/PC= 4 SC/APC=5 LC/PC=7 Special=0