Erbium Doped Fiber Amplifier
AGB/CGB/EFA-H Series, High-Power EDFA

Features

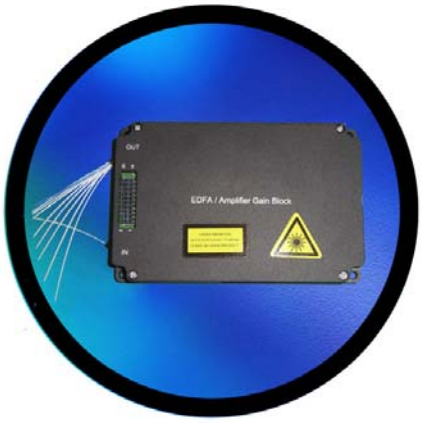
- High saturated output power up to 36dBm
- Wide operating wavelength range
- Exceptionally low noise figure
- Optically isolated input and output ports to minimize system susceptibility due to connector reflections
- Input and output signal monitoring
- Front panel LCD display and status LED indicators for quick access of unit's status
- RS-232 or Ethernet interface for remote supervision.

Applications

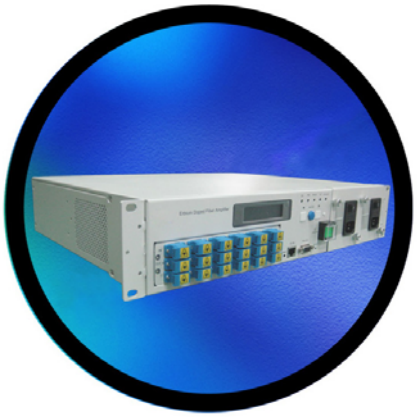
- Analog and digital CATV transmission systems
- PON systems
- Long-haul transmission systems
- Instrumentation

Description

GIP Technology H-series Erbium-Doped Fiber Amplifiers (EDFAs) are mainly designed for use in the distribution systems such as the CATV or PON to compensate the big branching loss. The H-series utilizes the highly reliable optical components and the unique design to achieve the extremely highly saturated output power.



This series is available in a variety of packaging choices, ranging from the gain block module, stand-alone desktop, to 2U rack-mounted in an EIA 19" or 23" rack. The flexible package size provides solutions for multiple applications and serving area. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces.



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Specifications

Optical Information		Unit	Description
Operating wavelength range		nm	1545 ~ 1562
Input power range	Max.	dBm	0 ~ +15
Number of output ports			1, 4, 8,16, 32
Total saturated output power*[1, 2]	Max.	dBm	Up to 30
Noise figure	Typ.	dB	8
Polarization dependent gain	Max.	dB	0.5
Polarization mode dispersion	Max.	ps	0.5
Return loss	Min.	dB	45
Fiber type			SMF-28, 900 μm loose tube
Fiber length*[3]		m	1.0
Connector			FC or SC
Electrical Information			
Connector type			Female connector
Environmental Information			
Operating case temperature		°C	0 ~ 65
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condense)		%	5 ~ 85
Outline Information			
Dimension (W x L x H)		mm	70 ×108 × 30

*1: Saturated power is composed of optical signal and ASE power.

*2: Measured at 1545~1562nm.

*3: Other fiber length also available by request.

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Specification

Optical Information		Unit	Description	
			CGB-H	EFA-H
Operating wavelength range		nm	1545 ~ 1562	
Input power range	Max.	dBm	-10 ~ +10	
Number of output ports			1, 4, 8, 16, 32	
Total saturated output power*[1,2]	Max.	dBm	Up to 36	
Noise figure	Typ.	dB	5.5	
Polarization dependent gain	Max.	dB	0.5	
Polarization mode dispersion	Max.	ps	0.5	
Return loss	Min.	dB	45	
Fiber type			SMF-28, 900 μm loose tube	
Fiber length*[3]		m	1.0	
Connector			FC or SC	
Electrical Information				
Operating voltage		Volt	+5, +12 VDC	100~240 VAC
Control interface			RS232	RS232 & SNMP
Environmental Information				
Operating temperature		°C	0 ~ 60 (case)	0 ~ 45
Storage temperature		°C	-20~80	
Relative humidity (non-condense)		%	5~85	
Outline Information				
Dimension (W x L x H)		mm	135 x 185 x 30	19” or 23”

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