

# 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.

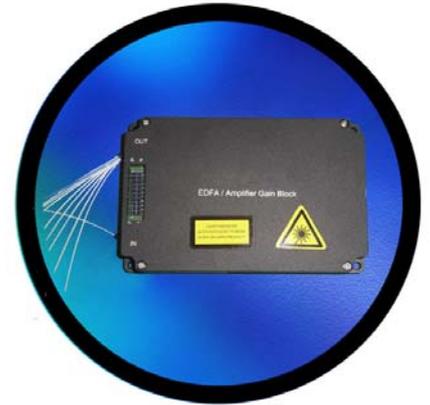
## Applications

- \* 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.



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

### 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 $\mu$ m 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	70 x 90 x 23 (8 ports) 135 x 185 x 30	19" or 23"

\*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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