

Erbium Doped Fiber Amplifier EFA-T Series (Combo Amplifier)

Features

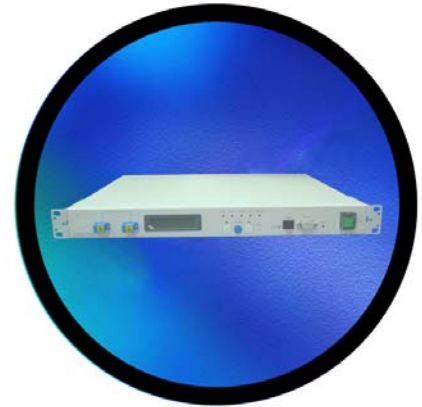
- * Intermediate/Long distance extension
- * Input and output signal monitoring
- * Front panel LCD display or status LED indicators for quick access of unit's status
- * RS-232 and Ethernet interface for local and remote supervision
- * Redundant dual power supply

Applications

- * Wavelength conversion and distance extension
- * Metropolitan WAN network
- * High speed network

Description

GIP Technology Combo Amplifiers, Erbium-Doped Fiber Amplifiers plus Fiber Extender, are specially designed for wavelength conversion and distance extension on single mode fiber (SMF). This series can receive the 100M~2.7G signals ranging from 1260 to 1620nm and convert/amplify to the Specified DWDM-ITU wavelength. This series incorporates a special, unique, and flexible structure to produce stable output power and low noise. Through optimization of these important amplifier parameters, this module will be easily deployed into any of high-quality telecommunication platforms.



This model is offered as C-band version in the booster configuration.

The compact stand-alone type, it not only can be embedded in the EIA 19 and 23-inch cabinet rack, but also can be placed on the desk.

In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS232 and SNMP).



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Specifications (100M ~ 2.7G)

Optical Information		Unit	Description
Output			
Operating wavelength		nm	1530 ~ 1560, ITU grid
Channel spacing		Hz	100G
Bit rate	Typ.	bps	100M ~ 2.7G
Saturated output power*1		dBm	13 ~ 17
Spectrum width (@-20dB width)	Max.	nm	0.3
Extinction ratio	Min.	dB	8.2
Dispersion tolerance*2	Typ.	ps/nm	720 ~ 3600
Dispersion penalty	Max.	dB	3
Fiber type			Single mode
Connector			SC or FC
Input			
Operating wavelength		nm	1260 ~ 1620
Input power*3		dBm	-13 ~ +2
Bit rate	Typ.	bps	100M ~ 2.7G
Fiber type			Single mode
Connector			SC or FC
Electrical Information			
Power supply voltage		Volt	-48 Vdc and 100 ~ 240 Vac
Fan		pcs	2
Pump LD ON/OFF switch			Key type
Power consumption	Typ.	W	10
Environmental Information			
Operating temperature		°C	0 ~ 50
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condensing)		%	5 ~ 85
Outline Information			
Dimension			19" and 23"

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

*2: Measured at G.652 SMF.

*3: Measured with PRBS 2²³ -1 at 10⁻¹⁰ BER.



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Erbium Doped Fiber Amplifier EFA-T Series (Combo Amplifier)

Specifications (10G)

Optical Information		Unit	Description
Output			
Operating wavelength		nm	1530 ~ 1560, ITU grid
Channel spacing		Hz	100G
Bit rate	Typ.	Gbps	9.95 ~ 11.1
Saturated output power*1		dBm	13
Spectrum width (@-20dB width)	Max.	nm	1.0
Extinction ratio	Min.	dB	8.2
Transmission distance*1,2	Typ.	Km	80
Dispersion penalty*1,2	Max.	dB	3.0
Fiber type			Single mode
Connector			SC or FC
Input			
Operating wavelength		nm	1260 ~ 1620
Input power*1,2		dBm	- 13 ~ -2
Bit rate	Typ.	Gbps	9.95 ~ 11.1
Fiber type			Single mode
Connector			SC or FC
Electrical Information			
Power supply voltage		Volt	-48 Vdc and 100 ~ 240 Vac
Fan		pcs	2
Pump LD ON/OFF switch			Key type
Power consumption	Typ.	W	10
Environmental Information			
Operating temperature		°C	0 ~ 50
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condensing)		%	5 ~ 85
Outline Information			
Dimension			19" and 23"

*1. Measured at BER=1x10⁻¹², at PRBS of 2³¹-1, 9.95Gbps

*2. Measured at G.652 SMF



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