

## Features

- \* Bit-rate transparency
- \* 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 for local supervision

## Applications

- \* Analog video transmission systems
- \* High speed transmission systems
- \* Components or manufacturing Sub-assembly test

## Description

**GIP Technology** L-band Erbium-Doped Fiber Amplifier Unit (TLM-LEFA-00-00-U) is designed for use in the single-channel applications. They amplify optical signals across the third or fourth telecommunication window. This series incorporates a special, unique, and flexible structure to produce maximum signal gain and saturated output power while minimizing noise figure. Through optimization of these important amplifier



parameters, this module will be easily deployed into any of high-quality telecommunication platforms.

The compact stand-alone type, it not only can be embedded in the EIA 19 and 23-inch rack-mounted chassis, 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

Optical Information		Unit	Description		
			Booster	In-line	Pre
Control mode			APC		
Operating wavelength range		nm	1570~1603		
Input power range		dBm	-10 ~ +10	-20 ~ 0	-30 ~ -10
Saturated output power*1,2	Max.	dBm	24	24	15
Small signal gain*2	Min.	dB	20	30	35
Noise figure*2	Max.	dB	6.5	6.5	6
Polarization dependent gain	Max.	dB	0.5		
Polarization mode dispersion	Max.	ps	0.5		
Return loss	Min.	dB	45		
Connector			SC or FC		
Electrical Information					
Operating voltage		Volt	-48VDC or 100~240 VAC		
Pump LD ON/OFF switch			Key		
Control interface			RS232 & SNMP		
Environmental Information					
Ambient temperature		°C	0 ~ 50		
Storage temperature		°C	-20 ~ 80		
Relative humidity (non-condense)		%	5 ~ 85		
Mechanical Information					
Dimension			19" and 23" 1-RU rack		

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

\*2. Measured at 1585nm