

## Features

- \* Bit-rate transparency
- \* Extremely flat gain and low noise profile
- \* 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
- \* Redundant dual power supply

## Applications

- \* DWDM network systems
- \* SAN applications
- \* Metropolitan WAN network systems
- \* Long-Haul transport systems

## Description

**GIP Technology** L-band Erbium-Doped Fiber Amplifier Unit for DWDM (TLM-LEFA-DW-00-U) is designed for dynamic DWDM optical networking systems. They amplify optical signals across the third or fourth telecommunication window. Packaged in a rack-mounted chassis, these series incorporate many flexible and special characteristics such as different amplifier configurations (booster, inline, and pre), automatic gain control (AGC), and widely variable gain range to simplify network designs. In addition, we also provide options for transient suppression to further maintain system performance as the wavelength numbers fluctuate.



The compact rack-mounted unit serves the area size. In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS-232 and SNMP).



### **GIP Technology Corporation**

6F., No. 112, Xinmin St., Zhonghe Dist.,  
New Taipei City 235, Taiwan (R.O.C.)  
T:+886-2-8226-7855 [www.giptek.com](http://www.giptek.com)  
F:+886-2-8226-7955 [sales@giptek.com](mailto:sales@giptek.com)

## Specifications

Optical Information		Unit	Description		
			Booster	In-line	Pre
Control mode			AGC		
Operating wavelength range		nm	1570~1603		
Total input power range		dBm	-10 ~ +10	-20 ~ 0	-30 ~ -10
Total saturated output power*1	Max.	dBm	23	23	17
Signal gain, per band	Typ.	dB	21	30	30
Noise figure*2	Typ.	dB	7.0	6.5	6.0
Gain flatness	Max.	dB	± 1.0		
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