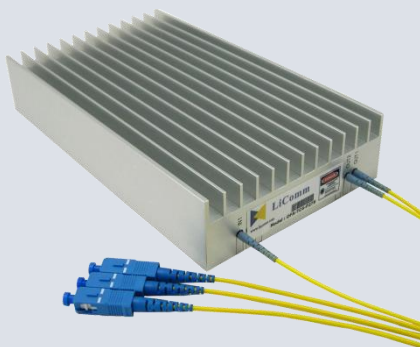


## Optical Fiber Amplifier

# Standard EDFA

## OFA-TC4 Series

The LiComm Standard EDFA OFA-TC4 series is a full-functioning EDFA module with control circuitry packaged inside. It is designed for a single wavelength and narrow band fiber optic communications system in core networks, access networks, or CATV networks. The OFA-TC4 series provides very stable output power up to 27dBm and noise figure of less than 5dB in C-band over wide operating temperature range. Compact size (210 x 120 x 35mm), combined with extremely low power consumption, allows the OFA-TC4 series to be highly suitable for applications of power equalization or pre-emphasis in very crowded telecom and CATV transmission systems.



### Features

- Compact size (210 x 120 x 35mm)
- CATV-network-proven low noise figure and superb non-linearity performance
- Extremely low power consumption over wide operating temperature range
- EDFA module including electric control circuit
- High output power up to 27dBm
- Wide input dynamic range
- Low noise figure
- APC (Automatic Power Control) or AGC (Automatic Gain Control)
- Control & monitor by RS232
- LVTTTL Alarm
- Single + 5V power supply

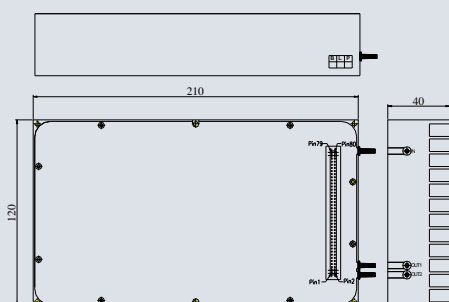
### Applications

- 2.5G/10G single channel amplification
  - Booster, In-line, Pre-Amp
- Narrow band amplification in C-band
- CATV network
  - Power booster, Line Amp
  - Distribution, Supertrunking
- LANs and MANs
- SONET/SDH system

## Optical Fiber Amplifier

# Standard EDFA

**Mechanical Dimension**  
(210 X 120 X 35mm)



### Optical Characteristics

Parameter	Symbol	OFA-TC4	Unit
Signal wavelength range	$\lambda$	1528 ~ 1563	Nm
Input power	$P_{IN}$	-30~0	dBm
Saturation Output power(1)	$P_{OUT}$	27	dBm
Small signal gain(2)	G	40	dB
Noise figure	NF	Typ. 5	dB
Optical isolation	ISO	>30	dB
Return loss	RL	>40	dB
Polarization mode dispersion	PMD	<0.3	Ps
Polarization dependent gain	PDG	<0.3	dB

(1) Input Power = 0dBm

(2) Input Power = -30dBm at 1545nm

### Electric & Environmental Characteristics

Parameter	Typical Value
Power supply voltage	+5V
Interface	RS232
Alarm	TTL
Operating temperature	- 10 ~ 60 °C
Storage temperature	- 40 ~ 85 °C
Storage humidity	5 ~ 90% R.H
Power consumption*	17.7W

\*At maximum output power, at 25 °C

### Ordering Information

OFA - XC4 - XX<sub>1</sub>XX<sub>2</sub>

$\begin{cases} \text{T} : \text{Digital} \\ \text{C} : \text{Analog (CATV)} \end{cases}$ 
 $\begin{cases} \text{XX}_1 : \text{Max. Output Power (dBm)} \\ \text{XX}_2 : \text{AP(APC), AG(AGC), AC(ACC)} \end{cases}$

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