

The Titan S series-EDFAs are low cost, high quality optical amplifiers for 1550nm optical transmission networks. They are equipped with latest optical amplification technology to provide reliable system performance, with low power consumption, low noise and distortions to provide superior

transmission of video, voice and data over fiber optics networks. These fully self contained 1RU rack mounted amplifiers may be configured to deliver 13 to 24 dBm total optical power with constant power control, 1 to 4 output ports and single/redundant AC/ DC power, making them ideal for HFC and long distance applications. The S series-EDFAs feature power level monitoring, user friendly front panel display, and SNMP (SCTE-HMS MIBs) remote management with alarms allowing them to serve both manned and unmanned head-end and hub applications.



Features and Benefits

- Low Noise, high performance for the highest video quality.
- Very stable, high quality design to insure years of trouble free service.
- Remote management using SNMP allows easy integration to standard management systems.
- Front panel controls for status at a glance. No terminal needed!.
- AC or DC powering to optimize the power options for each installation.
- Redundant power supplies for high reliability and to minimize downtime.
- Standard 19" or 23" rack mounted for simple installation.

Applications

- GPON/EPON RF feeder networks
- Inter-Office video transport networks
- HFC optical distribution networks

Generic Specifications

General

Dimensions W x H x D	19" x 1.75" x 14.2" (1 RU rack mount)
Weight	7 lbs (approx)
Optical connectors	SC/APC on rear panel
Cooling	Fan cooled (hot-swappable)

Optical Performance

Wavelength	1540nm to 1564nm
Input power	-10dB to +10dB (3dB typical)
Total output power	+13dBm to +24dBm
Output port split	1, 2, 4
Noise figure	4.5dB typical @ +3dB input
Output power stability	+/- 0.2 (constant power control)
Pump leakage	<-30dBm
Return loss	>55dB

Electrical Requirements

AC power	90 - 265VAC, 50/60 Hz (Universal AC)
DC power (optional)	-36 to -60VDC (fuse for 2 Amps)
Power consumption	50 Watts

Environmental

Operating temp range	0 to 50 °C
Storage temp range	-40 to +85 °C
Humidity	5% to 95% (non-condensing)

Management

Status display	Backlit LCD with menus, Status LEDs
Local control	Menu keys, Keyed laser switch
Configuration	RS232 terminal on rear panel
Remote monitoring	RJ45/LAN with SNMP on rear panel

Ordering Information

(Stand-alone, 1-RU Standard-power, EDFA optical amplifier)

Titan S Series EDFAs can be ordered and customized to your specific needs as follows:

TSEDF-pp-pc-ps-r

pp = Output power/port (dBm) (10, 13, 16, 18, 21 or specified)

pc = Port count (1, 2, 4)

ps = Power supply type (AC, DC)

r = Redundant power supplies (None, R)

Mechanical Drawings

