
RC-1550FA21-16

Description

Raycore High Power Series Erbium/Ytterbium Double-clad Fiber Amplifier (EYDFA) are designed for use in the high-power single-channel applications. They amplify optical signals across the third or fourth telecommunication window. These series incorporate 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.

This model is offered as C-band in booster configuration and its output power can be distributed to multiple output ports for the application of CATV network.

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).

Features

- * High and stable saturated output power + 21 dBm per port
- * Exceptionally low noise figure
- * Optically isolated input and output ports to minimize system susceptibility due to connector reflections
- * Input and output signal monitoring
- * Adaptor with shutter to avoid any human injuries
- * Front panel LCD display and status LED indicators for quick access of unit's status
- * RS-232 and Ethernet interface for local and remote supervision
- * Hot swap redundancy for power supply and fan unit

Applications

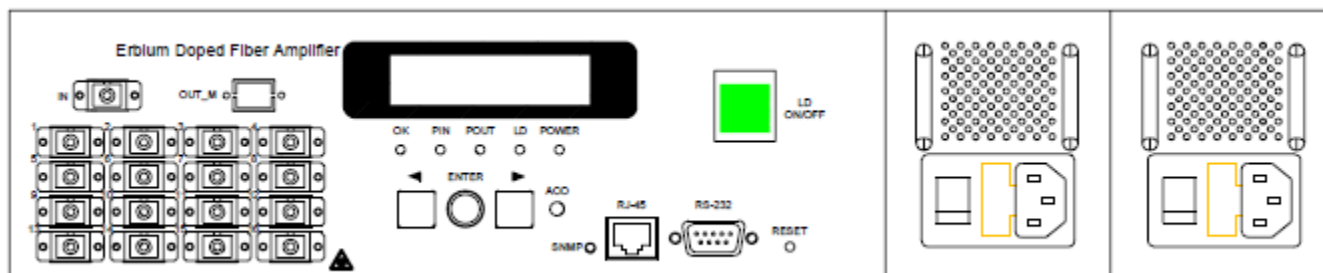
- * Analog and digital CATV transmission systems
- * Distributed or PON systems
- * Long-haul transmission systems
- * Instrumentation

Specifications

Optical Information		Unit	Description
Control Mode			APC
Operating wavelength range		nm	1550 ~ 1560
Input power range		dBm	-5~ +10
Saturated output power (per port)		dBm	+21
Output power stability		dB	$\leq \pm 0.3$
Number of output ports			16
Port to port variation	Max.	dB	1
Noise figure (@Pin= 0 dBm, 1550nm)	Max.	dB	5.5
Polarization dependent gain	Max.	dB	0.5
Polarization mode dispersion	Max.	ps	0.5
Isolation (@1550±15nm, 25°C)	Min.	dB	30
Return loss	Min.	dB	45
Optical Type			SC/APC
Electrical Information			
Power supply voltage		Vdc	100 ~ 240 Vac
Power supply unit		pcs	2
Fan unit		pcs	2
Pump LD ON/OFF switch			Toggle type
Environmental Information			
Operating ambient temperature		°C	0 ~ 50
Storage temperature		°C	-20 ~ 80
Relative humidity (non-condensing)		%	5 ~ 85
Outline Information			
Dimension			19" and 23" 2-RU rack
User Interface Information			
LCD display		Input power, Output power, LD temperature, Date, Time	
LED display		OK, PIN, POUT, LD, POWER, SNMP	
Control key		Left, Right, Enter, ACO	
Alarm interface		Buzzer, Two normally open relay contacts	
Status supervisory	Local control	RS232	
	Remote Control	10/100Base-T	
	Protocol/Interface	SNMP (MIB) and Ethernet	

Outline Drawing

Front panel



Rear Panel

