

EG-FA Fiber Amplifier

Optical



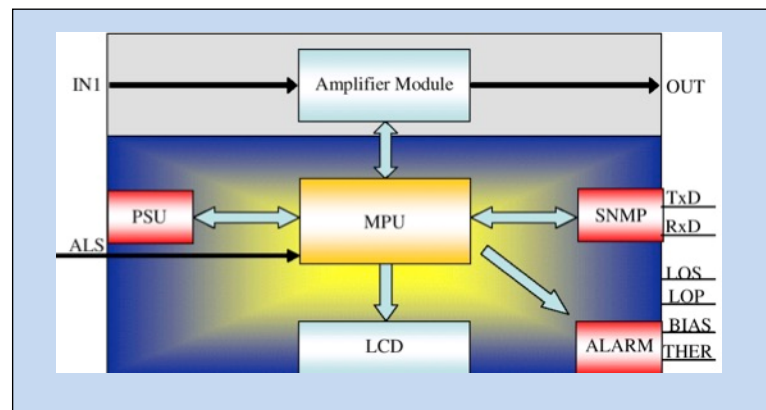
Description

The EG-FA is a fiber amplifier and power supply integrated in a 1RU&2RU shelf. It has been designed and optimized for CATV and the passive optical network (PON) applications including HFC and RFoG. The EG-FA provides stable optical outputs over a wide operating temperature range. It is supported with input and output isolators for enhanced system stability and performance. The EG-FA incorporates electrical control circuitry with a digital signal processor and includes photodiodes for monitoring the optical input and output power through tap couplers.

The EG-FA offers a rich set of features. These include remote management capability through SNMPv2 and telnet. It also fully supports MIB specified by SCTE (Society of Cable Television Engineers) for this product class. The front panel's LCD and button provides the operator with the option to both monitor the status of the amplifier and control/operate the amplifier locally.

Features

- Multiple outputs configurations
- Single or dual, AC or DC power supply
- CATV–field–proven low noise figure
- Wide input dynamic range
- Stable output power over broad operating temperature range.
- Control & monitor with SNMPv2
- Automatic Power Control (APC)
- Alarm LED for:
 - Loss of input
 - Loss of Output
 - Pump temperature
 - Pump Bias Current



Technical Specifications:

Parameter	Units	Value	Note
Signal Wavelength Range	nm	1530 to 1565	
Input Power	dBm	-3 to 10	
Output Power	dBm	See ordering information	Note
Output power stability	dB	< ± 0.2	
Bias oscillation sensitivity	dB	< 0.2	
Bias oscillation dispersion	ps	< 0.5	
Optical return loss	dB	> 40	
Fiber connector		FC/APC or SC/APC	
Noise Figure	dB	≤ 5	2
Mechanical and Management			
Operating Temperature Range	°C	0 to 50	
Storage Temperature Range	°C	-25 to 65	
Relative Humidity	%	0 to 95	
AC Power Supply Voltage	VAC	85 to 265	
AC line frequency	Hz.	50 or 60	
DC Power Supply Voltage	VDC	-36 to -72	
Power Consumption	Watts	≤ 130, Depends on model	
Approvals		FDA/CDRH Class IIIb IEC ® 60825 Class 3B laser	
Laser Class		Class 3B per IEC 60825-1:1993	
Notes:			
1) Specifications are subject to change without notice.			
2) Test Condition: Input Power = 0 dBm (@ 1550nm).			

Ordering Information

EG-FA	-14/1	-1	-1	SA	
Model Series	Optical total Power	Output	PON through	Power Supply	Connector
EG-FA	14 = 14dBm (1RU) 17 = 17dBm (1RU) 19 = 19dBm (1RU) 20 = 20dBm (1RU) 21 = 21dBm (1RU) 23 = 23dBm (1RU) 24 = 24dBm (1RU) 20 = 20dBm (2RU) 27 = 27dBm (2RU) 28 = 28dBm (2RU) 29 = 29dBm (2RU) 30 = 30dBm (2RU) 31 = 31dBm (2RU) 32 = 32dBm (2RU) 33 = 33dBm (2RU) 34 = 34dBm (2RU) 35 = 35dBm (2RU) 36 = 36dBm (2RU)	1 = 1 port (1RU) 8 = 8 ports (2RU) A = 16 ports (2RU) B = 32 ports (2RU) C = 64 ports (2RU)	0= N/A 1= with 1550/1490/1310 WDM	1 = Single AC 2 = Single DC 3 = Dual AC 4 = Dual DC	SA=SC/APC FA=FC/APC