

IPG EAR Series

OPTICAL DISTRIBUTION AMPLIFIER

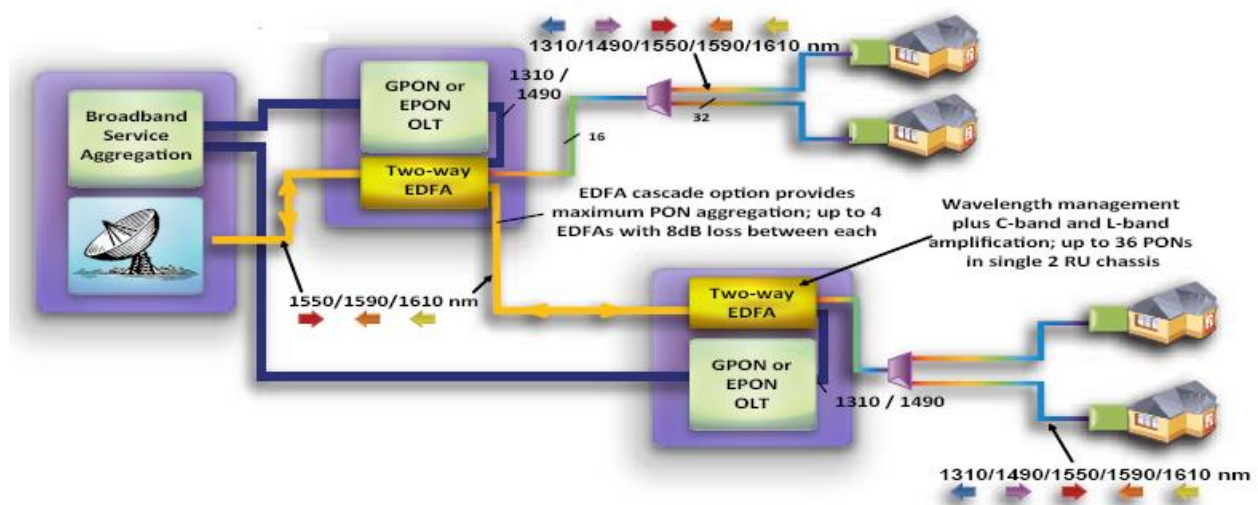
IPG's EAR Series EDFAs offer the widest flexibility in output power and port count available today in the market. 1 RU packages are available for deployments requiring lower port counts. IPG's EDFAs can be cascaded within a single equipment rack to support long term growth as new homes are connected over time.



IPG's proprietary multimode side pump technology increases power scalability while reducing component count. IPG combines pumps in a high power, redundant design with intrinsic "soft fail" characteristics, providing the multi layer reliability required in a network building block.

- Up to 36 output ports in compact two RU package
- Optional integrated CWDM filters
- Up to +23 dBm per port output power
- Extremely flexible configuration possible
- EDFA cascade increases CMTS port utilization
- Upstream wavelength choice from 1585 or 1620 nm
- Available for extended temperature deployment (-40-65 °C)

RFOG APPLICATION



PARAMETERS	CONDITION	UNIT	VALUE
Port to Port Variation	Maximum for 16 Port Unit	dB	1.0
Monitor Port Output Power	Maximum	dBm	0-3
Operating Wavelength Range - C Band	Standard	nm	1550-1560
Operating Wavelength Range - L Band	Standard	nm	1580-1620
Noise Figure (Pin = +6 dBm)	Maximum	dB	4.5
Carrier to Noise Ratio (CNR) Degradation	Typical	dB	0.5
Power Consumption	Maximum	W	90
Output Power	Typical	mW	50, 60, 100, 120
Number of Ports	Four (1 RU Booster) Four (2 RU Pre-amp) 8, 16, 36 (2 RU)		
CWDM	Optionally Included		
Ambient Operating Temperature	-10-55 °C or -40-65 °C		
Power Supply	-36 to -72 VDC or 100-240 VAC		
SNMP	EDFA MIB available for MIB Browser		
Daisy Chain	Two Ports or four Ports		
Chassis Width	19" w/ rear Electrical Connections (23" Mounting Option w/ Ears) or 23" w/ front Electrical Connections		
Air Flow	Front to Back (19" Chassis) or Left to Right (23" Chassis)		
Optical Access	Front Panel or rear Panel		
GENERAL PARAMETERS			
Chassis Dimensions	1 RU 2 RU	mm mm	483 x 311 x 44 483 x 311 x 88
Humidity (non condensing)		%	10-95
Storage Temperature Range		°C	-40-80

