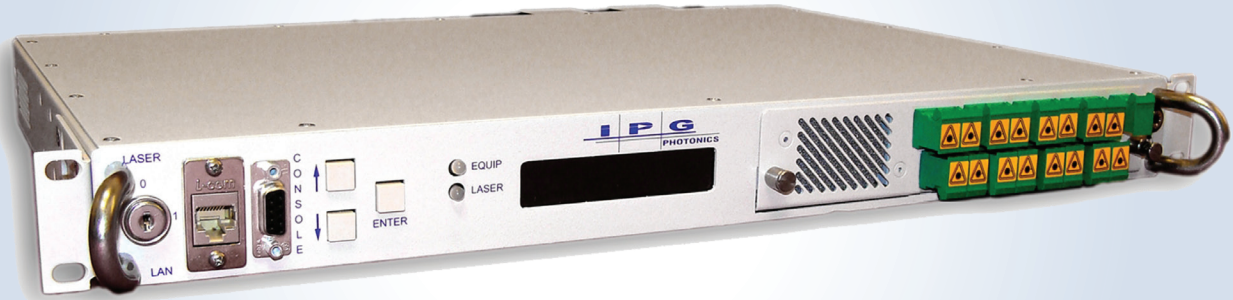


# EAR Series 1RU Rack Mount EDFAs

## Optical Amplifiers for RF Video Applications



### Applications

- ▶ CATV
- ▶ FTTB
- ▶ FTTC
- ▶ FTTH
- ▶ FTTx
- ▶ Broadband Access
- ▶ Free Space Communications
- ▶ RF Video Overlay



### Features

- ▶ Total Output Power 50 mW to 2 W
- ▶ Up to 16 Output Ports
- ▶ Up to 200 mW per Port Output Power
- ▶ <4.5 dB RF Noise Figure
- ▶ Integrated CWDM Option for FTTx
- ▶ Low Power Consumption
- ▶ Low CNR Penalty

**IPG Photonics' 1RU EAR Series** of low noise, high performance EDFAs provides the ideal building blocks for CATV network systems. These space efficient rack mount amplifiers are available in both single optical channel and DWDM configurations. IPG's EDFAs are available with up to 200 mW (23 dBm) per port output power. IPG's rack mount amplifiers are constructed using our proprietary amplifier modules, providing the best available reliability characteristics and the widest range of power choices for cost-effective architecture flexibility. Optimized for low noise, IPG's EDFAs allow for clear transmission of video, voice and data signals. Carrier-to-noise ratio (CNR) penalty is typically less than 1 dB. The 1RU offers additional flexibility with up to 16 output ports available.

# EAR Series 1RU Rack Mount EDFAs

## Optical Amplifiers for RF Video Applications

### Optical Characteristics

	Value
Max. Output Power per Port, dBm	Up to +23
Number of Ports	1, 2, 4, 8, 16
Max. Port to Port Variation, dB	±0.5
Monitor Port Output Power, dBm	0-3
Operating Wavelength Range, nm	1550-1560
Typ. Noise Figure (Pin= +6 dBm), dB	4.5
Carrier-to-Noise Ratio (CNR) Degradation, dB	1.0
Power Consumption, W	55
Max. Residual Pump Power, dBm/ nm	-20
Typ. Composite Second Order (CSO), dBc	-75
Typ. Composite Triple Beat (CTB), dBc	-80

### General Characteristics

Chassis Dimensions, mm	483 x 311 x 44
Ambient Operational Temperature Range, °C	Standard: -10 to +55 Extended: -40 to +65
Storage Temperature Range, °C	-40 to +80

+1 (508) 373-1100  
telecom.us@ipgphotonics.com

[www.ipgphotonics.com/telecom](http://www.ipgphotonics.com/telecom)

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