

# EDFA Gain Modules

*EOD-Series*

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Incorporating our own high-power boosters and near-quantum-limited noise-figure EDFAs, our first long-haul, unrepeated telecom system (OLE) was launched in 1995.

Since then, our EDFA portfolio has expanded to meet wider bandwidth and more diversified custom requirements.

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A complete line of EDFA gain modules designed to meet various amplification requirements for single channel, narrowband, and DWDM transmissions in metro, long haul, and ultra-long haul networks.

## Features & functions

- Output power from 10 to 22 dBm
- Fast transient response
- Flat spectrum
- Extremely low noise figure
- Variable gain
- Mid-stage access (variable)
- Selection of industry-standard form factors

*EOD-U Series*

# Ultra Small Amps Series

Single channel and narrow band amplification

Single wavelength amplification at high bit rate

Compact (Industry Standard)

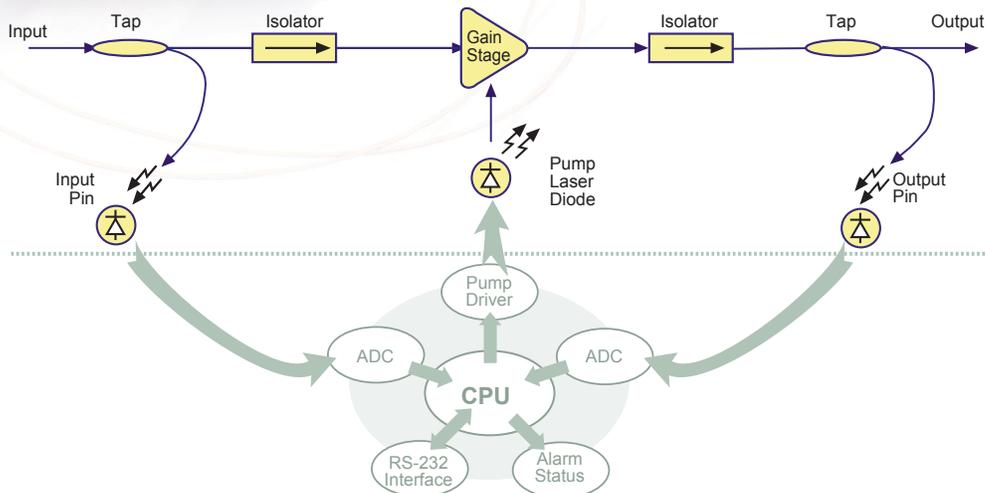
Saturated output power up to 15 dBm

Small signal gain ~25dB

Low cost

Available as PreAmp and Booster

Low power consumption



*EOD-M Series*

# Classic Amps Series

Metro and Long Haul Network  
Single channel and narrow band amplification

Simple design

Broad range of gain and output power available

Constant current and power modes

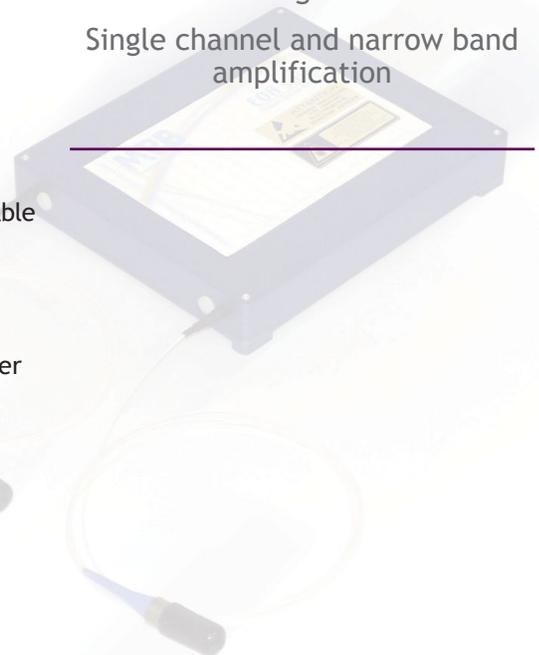
Mid-stage access

Configurable as a Booster, and PreAmplifier

Low cost

User friendly RS-232 interface

- Options...**
1. Fixed mid-stage access up to 9 dB
  2. OSC coupler
  3. Monitor taps



*EOA-S Series*

# Variable Gain EDFast Series

# EDFAst

Metro, Long Haul &  
Ultra-Long-Haul  
DWDM Amplification

- Variable gain up to 12 dB
- Output power up to 22 dBm
- Fast transient control
- Gain flattened across the bandwidth
- Mid-stage access up to 12 dB
- Constant gain current and power modes
- Alarms
- User friendly RS-232 interface

- Options...**
1. Variable mid-stage access up to 12 dB
  2. Variable gain up to 15 dB
  3. Transient control
  4. OSC coupler
  5. Monitor taps



## Transient Response for the EDFast

	3dB drop	6dB drop	
Max excursion	0.5	1.5	dB
Settling time	50	100	µsec
Gain offset	0.15	0.15	dB



*EOA-H Series*

# WDM EDFast Series

- Fast transient control
- Output power up to 22 dBm
- Gain flattened across the bandwidth
- Mid-stage access up to 12 dB
- Constant gain current and power modes
- User friendly RS-232 interface

- Options...**
1. Fixed mid-stage access up to 12 dB
  2. Transient control
  3. OSC coupler
  4. Monitor taps



# EOA-Series

	EOA-SP	EOA-HP	EOA-HI	EOA-HR	EOA-MP	EOA-MR	EOA-UP	EOA-UR	
Operational Wavelength	1528-1563								nm
Saturated Output Power	17 22	17 21	17 22	--	12, 15, 17, 24	--	15	--	dBm
Gain	10-25 15-30	>14	>28	>35	--	>35	--	>25	dB
Total Input Power	-27-7	-3-3 -5-7	-10-6 -6--2	-30--10	-10-5	-30--10	-10-5	-30--10	dBm
Mid-Stage Loss	9 12	7	9 12	--	--	--	--	--	dB
Noise Figure	5	6	6	4	5	4	5	4	dB
Flatness	1.5	1	1	1	N/A	N/A	N/A	N/A	dB
Isolation (Input / Output)	32/32	32/32			32/32	Optional/32	32/32	Optional/32	dB
Package Dimension	200x130x24	150x125x24 or 200x130x24			150 x 125 x 24		70x90x12		mm

Specifications subject to change without notice.

## Module product numbers

