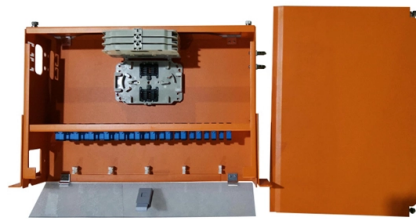


Price of fiber optic amplifiers



AI Overview

Fiber optic amplifiers range from around \$20 for basic sensors to over \$5,000 for high-power, professional EDFA modules.

Consumer and Industrial Sensor Amplifiers Basic fiber optic amplifier sensors, often used in industrial automation or short-range optical sensing, are available for \$20–\$150 on platforms like eBay and Amazon, depending on brand and features such as digital displays, dual outputs, or pre-wired configurations (e.g., Omron, Keyence, Banner Engineering). These are suitable for relay amplification, photoelectric sensing, or short-distance optical communication.

Audio and Home Applications Fiber optic audio amplifiers and digital optical splitters for home theater or gaming setups typically cost \$10–\$60, with variations based on cable length, connector type, and signal format support (Toslink, SPDIF). These are designed for short-range signal boosting rather than long-distance telecom use.

Professional Telecommunications Amplifiers High-performance optical amplifiers for long-distance fiber networks, such as Erbium-Doped Fiber Amplifiers (EDFA) or Semiconductor Optical Amplifiers (SOA), are priced significantly higher:

- Entry-level mini EDFAs: \$200–\$500 for small-scale FTTH or CATV applications.
- Mid-range EDFA modules: \$1,500–\$3,000 for C-band or DWDM pre-amplifiers and booster amplifiers with 13–27 dB gain.
- High-power professional EDFAs: \$3,000–\$5,000+, offering 20–27 dBm output, low noise figures, and advanced control features for long-haul telecom or research applications.
- Specialized SOAs and Raman amplifiers: Prices vary widely depending on wavelength range, gain, and output power, often exceeding \$4,000 for high-performance models.

Factors Affecting Price

- Amplifier Type:** EDFA, SOA, Raman, or audio fiber amplifiers.
- Output Power and Gain:** Higher output power and gain increase cost.
- Noise Figure:** Lower noise amplifiers are more expensive.
- Wavelength Range:** Amplifiers covering broader or specialized wavelength bands cost more.
- Features:** Digital control, APC/AGC, multi-c...

Article Content

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Fiber Optical Amplifier EDFA: 1528-1565nm (< 26dBm),

For power levels below 25dBm, the EDFA covers a wavelength range from 1528-1565nm, while for higher power levels, the wavelength range reduces to 1535

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Product Description GWA3530 is a 1550nm high output power C-Band Er-Yb co-doped double cladding optical fiber amplifier. With state of the art optical circuit design, GWA3530 ensures the excellent

Butterfly lasers driver module

Description The C-band High Power Polarization Maintaining Erbium-Doped Fiber Amplifier (EDFA) is designed to provide stable, high-power optical amplification in the 1535–1565 nm wavelength range.

Fiber Optic Sensor Amplifier

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