

Erbium-doped fiber amplifier technology price



Overview

An erbium-doped fiber amplifier (EDFA) is a type of optical amplifier that uses an optical fiber doped with erbium ions as the active gain medium.

Key Takeaways

The price of EDFAs typically ranges from around \$1,500 to over \$10,000 depending on output power, wavelength band, and configuration.

Typical Price Ranges

Low to mid-power desktop EDFAs (e.g., Thorlabs EDFA100 series, output >20 dBm) generally cost \$1,500–\$3,000 per unit, suitable for laboratory or femtosecond pulse amplification applications. Higher-power booster EDFAs (e.g., Thorlabs EDFA300 series, output >24.5 dBm) can range from \$3,000–\$6,000, offering higher gain and output for telecom or research applications.

OE

Module-based EDFAs for system integration, such as those from SIMTRUM or RPMC, may vary widely in price, often \$2,000–\$10,000, depending on output power (from a few mW to tens of watts), C-band or L-band operation, polarization-maintaining options, and gain-flattening features.

Factors Affecting Price

Output Power: Higher output power amplifiers cost more due to increased pump laser requirements and thermal management. **Wavelength Band:** C-band (1530–1565 nm) is standard, while L-band (1565–1652 nm) or multi-band EDFAs may be more expensive. **Configuration:** Desktop turnkey units are generally more expensive than OEM modules, which are designed for integration into larger systems.

Polarization and Gain Flattening: Polarization-maintaining and gain-flattened EDFAs add to the cost due to specialized fiber and optical components. **Vendor and Support:** Established suppliers like Thorlabs, RPMC, and SIMTRUM may charge a premium for technical support, warranty, and performance guarantees.

Summary

For most laboratory or telecom applications, expect to pay \$1,500–\$6,000 for standard EDFAs, while custom or high-power modules can exceed \$10,000. Prices vary based on output power, wavelength band, polarization, and vendor-specific features, so contacting suppliers for a quote is recommended for precise budgeting.

Article Content

Erbium-doped Fiber Amplifiers

An erbium-doped fiber amplifier (EDFA) is a type of optical amplifier that uses an optical fiber doped with erbium ions as the active gain medium. It is widely used

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Erbium-Doped Fiber Amplifiers Principles and Applications

What are the current types and architectures of amplifier-based systems? Erbium-Doped Fiber Amplifiers: Principles and Applications These are just a handful of the essential questions answered

Broadband bismuth-doped fiber amplifiers

Rare-earth doped gain media have been demonstrated to be the essential materials for generating near-infrared (NIR) lasers, especially for wavelengths of high technological importance,

Cb Pulsed EDFA Market 2026-2034

North America continues to dominate the C-band Pulsed EDFA Market due to its mature telecommunications infrastructure and early adoption of advanced optical amplification technologies.

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