

How much does it cost to install a 1 16 beam splitter



AI Overview

The price of a 1-to-16 beam splitter typically ranges from \$50 to \$200 per unit, depending on type, quality, and supplier.

Overview A 1-to-16 beam splitter is an optical device that divides a single input signal into sixteen output channels. These splitters are commonly used in fiber-optic networks, such as Passive Optical Networks (PON), or in laboratory optical setups for distributing light evenly across multiple paths. The most common type for fiber applications is the Planar Lightwave Circuit (PLC) splitter, which offers compact size, high reliability, and uniform channel performance.

Pricing Factors The cost of a 1x16 beam splitter depends on several factors:

- Type of splitter:** PLC splitters are generally more expensive than simple free-space plate or cube splitters due to their precision fabrication.
- Wavelength range:** Splitters designed for telecom wavelengths (e.g., 1310 nm, 1550 nm) may cost more than those for visible light.
- Insertion loss and uniformity:** Lower insertion loss and better channel-to-channel uniformity increase the price.
- Packaging:** Open-ended fiber splitters are cheaper, while fully packaged modules with connectors or protective casings cost more.
- Supplier and bulk orders:** Prices vary between suppliers like Thorlabs, Edmund Optics, Alibaba, or OneStopCable, and bulk purchases can reduce per-unit cost.

Example Pricing Enbeam 1x16 Open-Ended PLC Splitter: This silica-based PLC splitter is widely used in PON systems. While the exact price is not listed on the supplier site, similar 1x16 PLC splitters typically cost \$50–\$150 per unit depending on specifications and order quantity.

Alibaba and bulk suppliers: High-precision optical beam splitters, including 1x16 configurations, are available in the \$100–\$200 range for small quantities, with lower prices for bulk orders.

Summary For a 1-to-16 beam splitter, expect to pay roughly \$50 to \$200 per unit, with the final p...

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