

Purchase Price of Box-Type Optical Splitter

Article Overview

Box-type optical splitters typically range from \$10 to \$150 or more, depending on split ratio, port count, and technology.

Price Overview

- o Small Split Ratios (1x2, 1x4): These basic ABS box splitters are generally the most affordable, with prices starting around \$10-\$20 per unit on platforms like AliExpress .
- o Medium Split Ratios (1x8, 1x16): These are commonly used in FTTH and PON networks, with prices ranging from \$25 to \$60, depending on the brand and packaging .
- o High Split Ratios (1x32, 1x64, 1x128): PLC splitters housed in ABS boxes for large-scale deployments can cost \$80-\$150 or more, reflecting their higher port count and precision manufacturing .
- o FTTH Distribution Splitter Boxes (e.g., 12-port): Pre-assembled fiber distribution boxes with integrated splitters for indoor/outdoor use are priced around \$30-\$70, depending on features like IP65 protection, material, and included adapters .

Factors Affecting Price

- o Split Ratio: Higher split ratios (e.g., 1x64, 1x128) require more precise manufacturing and materials, increasing cost.
- o Technology: PLC splitters are more expensive than FBT splitters due to their compact design, uniformity, and reliability .
- o Material and Protection: ABS box enclosures with IP65 rating or ruggedized designs for outdoor use are priced higher than basic indoor boxes .
- o Port Count: More ports or modular designs (LGX cassette or rack-mount) increase the price due to additional components and assembly complexity .
- o Brand and Warranty: Established brands with quality assurance and longer warranties may charge a premium.

Purchasing Options

- o Alibaba: Offers a wide range of optical splitter boxes for bulk orders, suitable for enterprise or telecom deployments .
- o Amazon: Provides smaller quantities and pre-assembled FTTH splitter boxes for residential or small-scale projects .
- o AliExpress: Ideal for low-cost, small-quantity purchases, including 1x2 to 1x16 splitters .
- o Specialized Suppliers: Websites like Optcore and ME Fiber Optic provide PLC and FBT splitters with detailed specifications and higher reliability for professional installations . In summary, the price of a box-type



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optical splitter varies widely based on split ratio, technology, port count, and enclosure type, ranging from \$10 for simple 1x2 splitters to over \$150 for high-capacity PLC ABS box modules. Choosing the right splitter depends on your network requirements, deployment scale, and environmental conditions.

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This buyer's guide for beam splitters provides technical background, comparison of major types, selection criteria, and an overview of

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