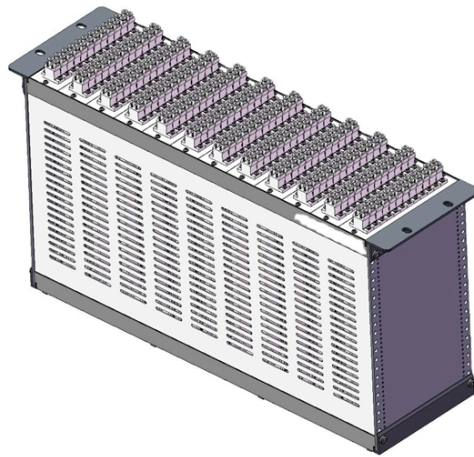


Gigabit Optical Module Price List



AI Overview

Gigabit (1G) optical modules typically range from \$5 to \$120 per unit, depending on brand, type, and specifications.

Price Ranges

Low-end compatible modules: Generic or third-party 1G SFPs are commonly priced between \$5 and \$25 per unit, suitable for short-reach enterprise links or legacy aggregation ports.

OEM-branded modules: Modules from vendors like Cisco, HPE, or Juniper generally cost \$60 to \$120 or more, especially for industrial-grade or extended temperature models.

Example module: The Huawei OEGD01N01 1000BASE-T RJ45 SFP, designed for Gigabit Ethernet over copper, is commercially available and priced competitively for enterprise deployment.

Factors Affecting Price

Vendor Tier: OEM modules command a premium over third-party compatible units.

Reach and Technology: Short-reach (SX) modules are cheaper than long-reach (LX/ER) or specialized industrial modules.

Volume Discounts: Bulk purchases can reduce unit cost significantly.

Customization: Extended temperature ranges, special wavelengths, or additional testing can increase prices.

Market Dynamics: Supply constraints or new technology releases can temporarily raise prices.

Practical Considerations

For short-distance enterprise networks, low-cost compatible SFPs are often sufficient. For mission-critical or long-distance links, investing in OEM-branded modules ensures reliability and compliance with vendor specifications. Copper-based 1G SFPs (1000BASE-T) are generally cheaper than fiber-based modules and can simplify deployment in existing cabling infrastructure.

In summary, when budgeting for gigabit optical modules, expect \$5–\$25 for generic units and \$60–\$120+ for OEM-branded or specialized modules, with final pricing influenced by vendor, reach, and technical requirements.

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