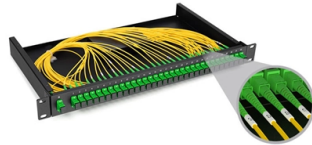


Server optical module cost



Article Overview

Server optical modules range from as low as \$5 for basic 1G SFPs to \$1,900 for high-end 800G modules, with pricing influenced by speed, vendor, and volume.

Pricing Overview by Module Type and Speed

- 1G SFPs: Generic or compatible modules typically cost \$5–\$25, while OEM-branded modules (Cisco, HPE, Juniper) range from \$60–\$120+ depending on specifications like industrial or extended temperature support .
- 10G SFP+: Compatible short-range modules often sell for tens of dollars, whereas OEM long-reach or DFB modules can reach hundreds of dollars .
- 25G SFP28: Modules for 25G Ethernet typically range from \$50–\$150 for compatible units, with OEM versions priced higher .
- 40G QSFP+: Prices vary from \$150–\$300 for standard modules, with OEM or long-reach versions commanding a premium .
- 100G QSFP28: Short-range multimode modules cost around \$600–\$800, while long-range single-mode modules can reach \$1,000+ .
- 400G QSFP-DD: High-speed modules are priced between \$1,000–\$1,500 for standard versions, with specialized or early-generation modules potentially costing \$1,500–\$1,900 .
- 800G OSFP/QSFP-DD: Volume pricing for 1000+ units ranges from \$700–\$1,900, depending on type (DR8, FR4, LPO) and reach .

Factors Affecting Pricing

- Vendor Tier: OEM modules from Cisco, Arista, or Juniper typically carry a 30-50% premium over third-party compatible modules

Article Content

SFP Module Price: Strategic Cost Analysis and TCO Factors

Compare SFP module prices, OEM vs third-party costs, and total cost of ownership (TCO). Learn what drives SFP pricing and how

Data Center Optical Module Market Research Report 2034

The Data Center Optical Module market was valued at \$16.9 billion in 2025 and is projected to reach \$77.6 billion by 2034, growing

Optical Module Package Market 2025

Optical Module Package Market was valued at 8942 million in 2024 and is projected to reach US\$ 20220 million by 2032, at a CAGR

800G Client Optics in the Data Center

The deployment of 400GE client optics was accelerated by the demand from hyperscale web players and service providers, along

What optical modules are usually equipped on network servers?

SFP+ is a high-speed optical module used for 10Gbps network connections. It is an upgraded version of the SFP module, providing

Data Center Optical Module Market

The Global data center optical module market is estimated to grow at a significant CAGR during the forecast period (2021-2027).

200G/400G/800G Optical Transceiver Modules | FiberMall

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center

Analyze The Cost Structure Of Optical Transceivers: Understand The ...

Summary: This article analyzes the cost components of optical transceivers, including material costs, manufacturing costs, R&D

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical

Optical Transceiver Pricing: Cost Ranges by Speed and Type

This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical

10G SFP Price Guide: How Much Does a 10G SFP Module Cost

Learn the latest 10G SFP price ranges, key cost factors, brand comparisons, and how to buy reliable 10G SFP modules at the best

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