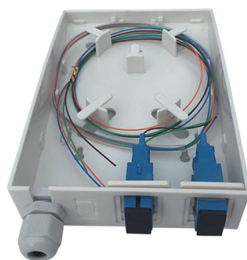


RIVO MULTITRADE OPTICAL SYSTEMS

Server optical module cost



Overview

are essential. These hot-pluggable optical modules consume low-power and are offered in the extended temperature range.

Key Takeaways

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 .
- Volume Discounts: Orders exceeding 1000 units may receive 10-20% discounts, and orders over 5000 units can see 20-30% reductions .
- Technology Maturity: Early-generation modules (first 12-18 months) can cost 40-60% more than mature products .
- Customization: Special wavelengths, extended temperature ranges, or additional testing can add 15-30% to the base price .
- Market Dynamics: Supply constraints or high demand can temporarily increase prices by 20-40% .

Summary

Server optical module pricing varies widely based on speed, reach, vendor, and volume. Low-speed modules (1G-10G) are inexpensive, while high-speed modules (400G-800G) are significantly more costly. OEM-branded modules command a premium, and bulk purchases or mature technologies can reduce costs. For data centers or AI clusters requiring high-speed interconnects, careful consideration of TCO, vendor selection, and volume discounts is essential to optimize investment .

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