

Article Overview

Optical module prices vary widely, from as low as \$5 for compatible 1G SFPs to several hundred dollars for OEM 100G or long-reach modules.

Price Ranges by Module Type and Speed

- o 1G SFP Modules: Compatible third-party modules typically cost \$5-\$25, while OEM-branded modules from vendors like Cisco, HPE, or Juniper can range from \$60-\$120 depending on specifications such as industrial temperature or extended reach .
- o 10G SFP+ Modules: Compatible 10G SR modules often sell for tens of dollars, whereas OEM or long-reach LR/ER modules can cost \$100-\$300+ .
- o 25G, 40G, 100G Modules: Prices increase with speed and complexity. Compatible 100G modules may start around \$200-\$400, while OEM or coherent optics modules for long-haul transmission can exceed \$1,000 .
- o 400G QSFP-DD Modules: High-density, high-speed modules for data centers or long-reach DWDM systems can cost several thousand dollars, especially for coherent optics supporting 80-120 km links .

Factors Affecting Price

- o Brand vs Compatible: OEM modules are tested and certified for specific vendor systems, ensuring full compatibility, which increases cost. Compatible third-party modules offer significant savings but may have limited warranty or vendor support .
- o Reach and Performance: Modules designed for long-reach (LR, ER, ZR) or high-temperature environments are more expensive than short-reach (SR) modules .
- o Data Rate: Higher-speed modules (25G, 100G, 400G) require more advanced components, driving up prices .
- o Form Factor: SFP, SFP+, QSFP, QSFP28, CFP, and CFPak modules differ in density and power requirements, influencing cost .

Practical Guidance

- o For enterprise short-reach links, compatible 1G or 10G SFP/SFP+ modules are cost-effective.
- o For data center uplinks or long-haul networks, investing in OEM or coherent optics modules ensures reliability and vendor support.
- o Always consider total cost of ownership, including warranty, compatibility, and potential downtime, when choosing between OEM and third-party modules . In summary, optical module prices are highly variable, ranging from single-digit dollars for basic compatible 1G SFPs to thousands for high-speed, long-reach, or coherent 400G modules, with brand, speed, reach, and form factor being the main cost drivers.



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