

Price range of 10G optical modules



Summary of Content

The cost of a 10G SFP+ optical module typically ranges from \$20 to \$300, depending on type, distance, and brand.

Price Ranges

- **Short-Range (SR) Modules:** Compatible 10G SR SFP+ modules are generally priced at the lower end, around \$20–\$60, suitable for distances up to a few hundred meters in data centers or enterprise networks .
- **Long-Range (LR/ER) Modules:** Single-mode LR or ER modules, designed for longer distances, typically cost \$100–\$300+, reflecting higher optical power, tighter manufacturing tolerances, and longer transmission capabilities .
- **Branded OEM Modules:** Modules from major vendors like Cisco, HPE, or Juniper can be priced significantly higher than compatible third-party options, often multiple times the cost of equivalent modules due to branding, support contracts, and vendor lock-in .

Factors Affecting Cost

- **Transmission Distance:** Longer distances require single-mode optics and higher precision, increasing cost.
- **Optical Technology:** Advanced modules, such as tunable DWDM SFP+ for 10G DWDM SDH or 10G Fibre Channel, offer enhanced wavelength stability and monitoring features, which can raise prices .

Article Content

10G Multi-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 400 m using multi-mode fiber with a duplex LC UPC connector.

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SFP-10G Price

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10G Optical Modules: Short-Range vs. Long-Range

Understand short-range and long-range 10G optical modules in terms of distance, budget,

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