

Cost-effective optical receiver SFP

Article Overview

SFP optical receivers typically range from \$5 to \$120 for 1G modules, with 10G SFP+ modules costing tens to hundreds of dollars depending on brand and reach.

1G SFP Modules

For standard 1000BASE-SX/LX SFP receivers, prices vary widely depending on whether the module is OEM-branded or a compatible third-party unit. Generic or compatible 1G SFPs usually cost \$5-\$25 per unit, making them suitable for short-reach enterprise links or legacy aggregation ports. OEM-branded modules from vendors like Cisco, HPE, or Juniper can cost \$60-\$120 or more, especially for industrial or extended temperature specifications .

10G SFP+ Modules

10G SFP+ receivers are commonly used in data center uplinks. Compatible 10G SR SFP+ modules often sell for tens of dollars, while OEM or long-reach (LR, ER) modules can reach hundreds of dollars per unit. Prices increase with extended reach, higher performance specifications, or specialized features .

Factors Affecting Price

- Brand: OEM modules are significantly more expensive than third-party compatible units.
- Speed: Higher-speed modules (10G, 25G, 50G, 100G) cost more than 1G modules.
- Reach: Long-reach or single-mode fiber modules are pricier than short-reach or m...

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