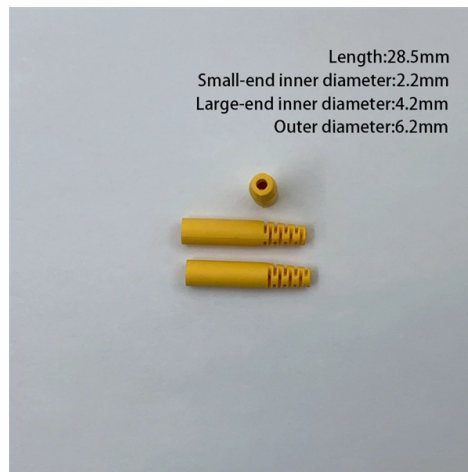


The most expensive 10G optical module model



AI Overview

The price of a 10G optical module typically ranges from \$10 to \$300, depending on type, distance, and brand. Price Range and Factors The cost of a 10G SFP+ module varies widely: Short-Range (SR) Multimode Modules: Usually at the lower end of the price spectrum, around \$10–\$50, suitable for distances up to 300 meters using multimode fiber. Long-Range (LR) Single-Mode Modules: Priced higher, often \$100–\$300, supporting distances up to 10 km with single-mode fiber. Brand Influence: Modules from major vendors like Cisco, HP, or Brocade are often more expensive due to branding, support contracts, and vendor lock-in, even if functionally similar to compatible third-party modules. Transmission Distance and Optical Technology: Longer distances and higher optical power requirements increase cost. LR modules require tighter manufacturing tolerances, contributing to higher prices. Practical Considerations Compatibility: Ensure the module matches your switch or router specifications. Compatible modules can offer significant savings without sacrificing performance. Power Consumption: Most 10G SFP+ modules consume less than 800 mW, but this can vary slightly by model. Use Case: Data center deployments often favor SR modules for cost efficiency, while backbone or enterprise links may require LR modules for longer distances. In summary, for a standard 10G optical module, you can expect to pay \$10–\$50 for SR multimode modules and \$100–\$300 for LR single-mode modules, with branded options potentially costing more. Choosing the right module depends on your network distance requirements, compatibility, and budget.

Article Content

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