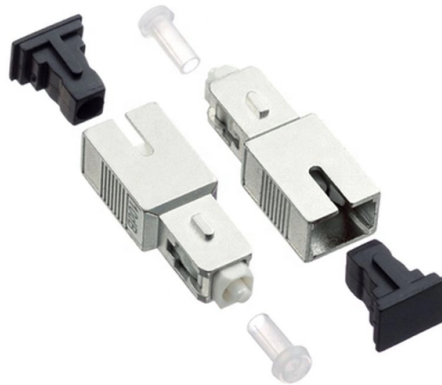


How much is a 10g optical module



AI Overview

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.

Brand and Compatibility: OEM-branded modules are more expensive, while compatible or third-party modules provide cost savings without sacrificing performance in many cases.

Use Case: High-density data centers or metro networks may require modules with lower power consumption, reduced bit error rates, and enhanced monitoring, which can influence pricing.

Practical Considerations

For most enterprise and data center deployments, reliable 10G SFP+ modules can be purchased well below the highest listed prices, especially when using compatible modules. Buyers should balance cost, compatibility, and warranty support to ensure network stability while optimizing capital expenditure.

In summary, a typical 10G SFP+ module costs between \$20 and \$300, with the exact price determined by module type, transmission distance, brand, and technical features.

Article Content

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Ubiquiti 10 Gbps Bidirectional Single-Mode Optical Module

Ubiquiti 10 Gbps Bidirectional Single-Mode Optical Module Single-mode, simplex, fiber transceiver module. The 10 Gbps Bidirectional Single-mode Optical Module is a simplex transceiver that delivers

What Is an SFP and How It Works Explained

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10G SFP+ transceivers are available in many different transmitting and receiving types. Users can select the appropriate transceiver for each link to provide the "optical performance" that can be achieved

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Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the

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Explore 10G SFP+ SR transceiver prices, key specs, compatibility, and buying tips. Learn how to choose cost-effective 10G SR modules for data centers.

Select The Right Fiber Patch Cables For 1G/10G/25G

Deploying optical modules requires the right fiber patch cable. It directly affects network connection stability, performance, and maintenance. This

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10G Bidirectional Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a simplex LC UPC connector.

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