How much does a 10GbE optical module cost



Overview

10G SFP Price Guide: How Much Does a 10G SFP Module CostThe average 10G SFP price typically falls between $10 and $300, depending on the module type, trans.

Key Takeaways

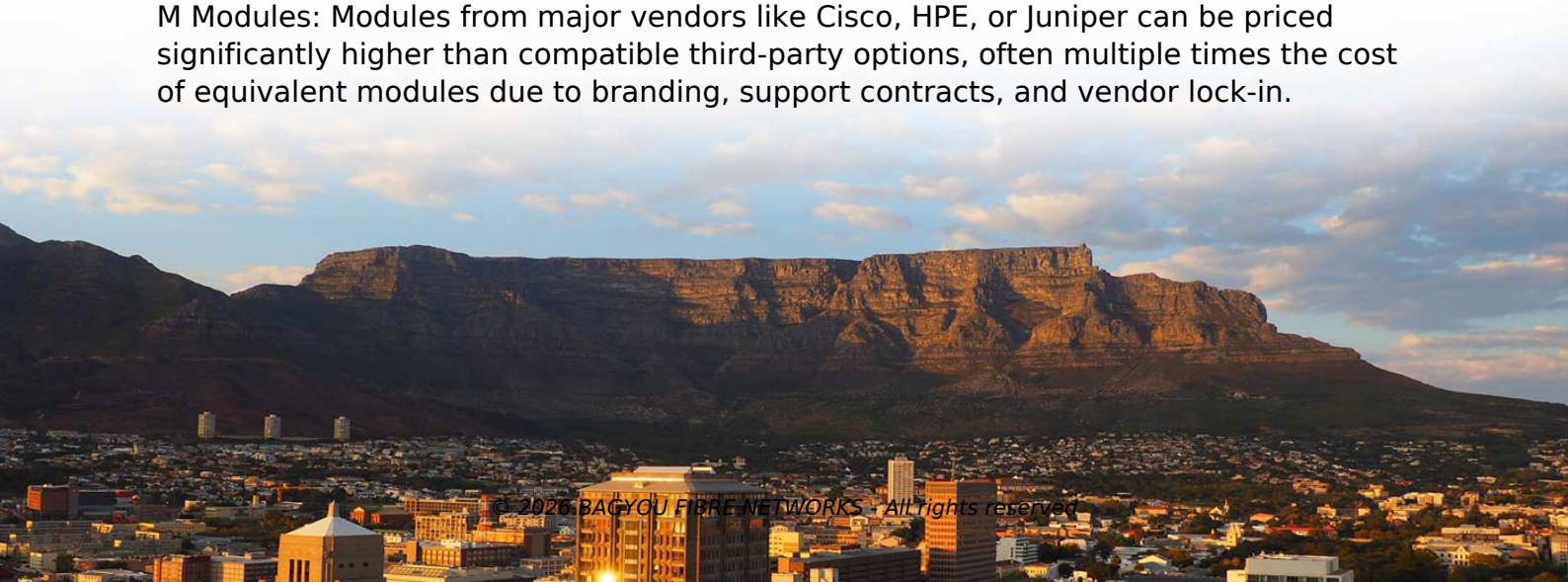
The cost of a 10G SFP+ optical module typically ranges from $20 to $300, depending on type, distance, and brand. Price RangesShort-Range (SR) Modules: Compatible 10G SR SFP+ modules are generally priced at the lower end, around $20–$60, suitable for distances up to a few hundred meters in data centers 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 OE

M 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.



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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

10G SFP Price Guide: How Much Does a 10G SFP Module Cost

The average 10G SFP price typically falls between $10 and $300, depending on the module type, transmission distance, and brand. For most standard enterprise and data center deployments, the

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How Much Does a 10G SFP+ Optical Module Cost? Technology

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Optical Transceiver Pricing: Cost Ranges by Speed and Type

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10G optics remain a staple in data-center uplinks. Compatible 10G SR SFP+ modules often sell for tens of dollars, while genuine OEM modules or long-reach (LR, ER) DFB parts push into the hundreds.

10G SFP+ Transceiver Modules&10Gbase-T | FiberMall

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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Optical Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable device used in high-bandwidth data

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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