

Price quote for 10 Gigabit optical modules

Article Overview

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

Price Overview

The cost of 10G SFP+ modules varies widely based on transmission distance, optical technology, and vendor. Short-range (SR) multimode modules, commonly used in data centers for distances up to 300-400 meters, are generally at the lower end of the price spectrum, often \$10-\$50 per module. Long-range (LR) single-mode modules, capable of 10 km or more, are more expensive due to tighter manufacturing tolerances and higher optical power, typically \$100-\$300. Enterprise-grade or branded modules from vendors like Cisco can cost several times more than compatible third-party options due to support contracts and vendor lock-in strategies .

Factors Affecting Price

- o Module Type: SR (short-range), LR (long-range), ER (extended-range), ZR (ultra-long-range), and active optical cables (AOCs) all have different costs .
- o Transmission Distance: Longer distances require higher-quality optics and tighter tolerances, increasing cost .
- o Brand and Compatibility: Branded modules (Cisco, Meraki, Nexus) are priced higher than compatible or third-party modules, even if functionally equivalent .
- o Environmental Specifications: Extended temperature or industrial-grade modules may carry a premium .

Practical Buying Guidance

- o For data center short links, SR modules are cost-effective and widely compatible with multimode fiber (OM3/OM4/OM5) up to 400 meters .
- o For backbone or long-distance links, LR or ER modules are recommended, with prices reflecting the higher performance requirements .
- o Third-party compatible modules can significantly reduce costs while maintaining reliability, but ensure compatibility with your switch or router platform .

Example Price Ranges

- o 10GBASE-SR SFP+ (MMF, 300-400 m): \$10-\$50
- o 10GBASE-LR SFP+ (SMF, 10 km): \$100-\$200
- o 10GBASE-ER SFP+ (SMF, 40 km): \$200-\$300+
- o Active Optical Cables (1-10 m): \$50-\$150 depending on length and vendor Understanding these ranges



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helps in budgeting and procurement planning for enterprise or ISP networks, ensuring cost-effective deployment without compromising performance.

10G SFP+ transceivers are available in many different transmitting and receiving types. Users can select

Genuine Amphenol 10GBASE-SR SFP+ Optical Transceiver Modules provide a high-density, high-performance interface for 10

FS 10G SFP+ transceiver module solutions provide a wide variety of reliable 10 Gigabit Ethernet

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10G SFP+ Optical Module is a type of SFP+ transceiver that supports 10 Gigabit per second (10Gbps) data rates and

Our 10 Gigabit SFP+ transceivers are designed to provide high-speed fiber optic connectivity for network switches and media

Asterfusion compatible 10GBASE-LR SFP+ Transceiver Module, up to 10km over SMF, applied for 10

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A 10G SFP+ transceiver is commonly used for high-speed network connections in modern data centers, supporting 10 Gigabit

10GBASE-SR SFP+ to LC Optical 10 Gigabit Ethernet Fiber transceiver module, 10GbE Multimode SFP+



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(compatible with both

Does this module work in Cisco, Juniper, Aruba, or other vendor equipment? The 10G-SFP-10 can be

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