

Price range of 10Gb 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 Range and Factors

The cost of a 10G SFP+ module varies widely due to several factors:

- o **Transmission Distance:** Short-range (SR) modules for multi-mode fiber up to a few hundred meters are usually at the lower end of the price spectrum, while long-range (LR) single-mode modules for distances up to 10 km or more are more expensive. Extended reach modules (ER, ZR, EX) for distances up to 120 km can cost significantly more .
- o **Brand and Compatibility:** Branded modules from major vendors like Cisco, Huawei, or Juniper are often priced higher than compatible third-party modules due to support, warranty, and vendor lock-in strategies .
- o **Optical Technology:** Single-mode optics, higher optical power, and stricter performance tolerances increase the cost compared to standard multi-mode modules .

Typical Examples

- o **SR Modules (850nm, MMF, ~300m):** Usually priced at the lower end, around \$10-\$50.
- o **LR Modules (1310nm, SMF, 10 km):** Mid-range, typically \$50-\$150, depending on brand and vendor .
- o **ER/ZR/EX Modules (1550nm, 40-120 km):** Higher-end, often \$200-\$300 or more, used for long-haul or metro networks .

Practical Considerations

For most enterprise and data center deployments, reliable 10G SFP+ modules can be purchased well below the highest listed prices without sacrificing performance. Buyers should consider:

- o Ensuring compatibility with existing switches and routers.
- o Choosing the appropriate module type for the required distance.
- o Evaluating whether a branded module is necessary or a compatible third-party module suffices . In summary, while the average 10G SFP+ module costs between \$10 and \$300, the exact price depends on distance, optical type, and brand, with SR modules being the most cost-effective and long-range or branded modules at the higher end of the spectrum .



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10GBASE-T SFP+ modules draw considerably more power than short-reach optical SFP+ or passive DAC.

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

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The 10 Gbps Multi-Mode Optical Module, model UACC-OM-MM-10G-D-2, from Ubiquiti is a high-performance, dual-rate optical

10GBASE-SR fiber optic transceiver is one of the most commonly used modules for 10GbE. SR stands for short-range,

Explore single mode 10G SFP+ modules, including LR, ER, and ZR types. Compare prices, distances, and compatibility to choose

The EDGEOPTIC 10G-SFP-10 is a multi-vendor compatible 10GBASE-LR SFP+ dual-fiber optical module

Transmit and receive optical data over SM fiber up to 10 km in an industrial temperature range environment. The SFP supports data

Understand short-range and long-range 10G optical modules in terms of distance, budget,

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This article compares typical cost ranges across speeds and transceiver types, explains why prices vary, and gives practical

The 10Gbps SFP+ to LC Multimode Fiber Transceiver Module provides a powerful solution for creating reliable, high

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