

Price per unit of 10 Gigabit optical module



Overview

SFP+ Optical Transceiver Modules (10G-SR/LR) Genuine Amphenol 10GBASE-SR SFP+ Optical Transceiver Modules provide a high-density, high-performance interface.

Key Takeaways

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

The cost of a 10G SFP+ module varies widely based on transmission distance, optical technology, and brand. For standard enterprise and data center deployments:

- Short-range (SR) multi-mode modules: Usually at the lower end of the range, around \$10–\$50, suitable for distances up to 300–400 meters using OM3/OM4 fiber .
- Long-range (LR) single-mode modules: Typically \$100–\$300, designed for distances up to 10 km, with higher optical power and stricter manufacturing tolerances .
- Extended range (ER, ZR, EX): Can exceed \$300, supporting distances from 40 km to 120 km, often used in backbone or carrier networks .

Factors Affecting Price

- Transmission Distance: Longer distances require single-mode optics and higher precision, increasing cost.

- Brand and Vendor: Branded modules from Cisco, Juniper, or other major vendors are often priced multiple times higher than compatible third-party modules due to support contracts and vendor lock-in .

- Compatibility: Modules certified for specific switches or routers may cost more.

- Optical Type: Multi-mode modules are cheaper than single-mode modules for equivalent speeds.

Practical Buying Tips

- For data centers or enterprise networks, compatible SR modules are cost-effective and reliable for short distances.

- For backbone or long-distance links, LR or ER modules are necessary despite higher cost.

- Always verify vendor compatibility to avoid network issues, especially when using third-party modules. In summary, a typical 10G SFP+ module costs between \$10 and \$300 per unit, with multi-mode SR modules at the lower end and single-mode LR/ER modules at the higher end, influenced by distance, brand, and optical specifications .

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