

Price list for high-temperature resistant SFP optical modules for data center interconnection



Overview

6G/8G/10G/16G/32G SFP+ Transceiver Modules | FiberMallFiberMall SFP+ Transceivers are hot swapping, cost effective modules supporting data rate of 50/25/10.

Key Takeaways

High-temperature resistant SFP modules for data center interconnection typically range from \$20 to \$300 per module depending on data rate, type, and vendor. Overview of Industrial-Grade SFP Modules

High-temperature or industrial-grade SFP modules are designed to operate reliably in extreme temperature environments, such as outdoor cabinets, fanless enclosures, or edge data centers. These modules support data rates up to 2.67 Gbps for standard SFPs, with SFP+ modules supporting 10 Gbps and some QSFP28 modules reaching 100 Gbps in ruggedized variants . They are built to withstand temperature extremes, vibration, dust, and electrical noise, ensuring stable connectivity in harsh conditions .

Price Ranges by Module Type

- 1G SFP Modules (Multimode/Single-mode): Prices typically range from \$20 to \$80 per module, depending on reach and vendor .
- 10G SFP+ Modules: Industrial-grade variants are priced between \$80 and \$200, with extended-temperature models at the higher end .

- 25G/40G QSFP+ and 100G QSFP28 Modules: Ruggedized or industrial-compliant modules are niche and can cost \$200 to \$300+, reflecting limited availability and higher power requirements .

Vendor Options

- FS Europe: Offers a wide range of SFP and SFP+ modules with industrial temperature options, suitable for data center interconnects .
- Optcore (Germany): Provides competitive pricing for SFP modules, including industrial-grade variants, with EXW/FOB pricing from China; shipping and import duties are additional .
- QSFPTEK: Third-party modules often provide cost savings, with 1G SFP prices reduced by 30–99% compared to OEMs, and 10G SFP+ modules reduced by 50% or more .

Considerations for Procurement

- Temperature Ratings: Verify operating case temperature vs. ambient temperature, especially in fanless or outdoor enclosures .
- Compatibility: Ensure modules are compatible with your switches and network operating systems; check DOM/DDM support and coding compliance .
- Power and Heat: Industrial SFPs consume ~0.8–1.0 W for fiber and ~1.05–1.2 W for copper; SFP+ modules are higher. Consider airflow and density .
- Vendor Reliability: Evaluate failure rates, QA processes, and after-sales support; third-party vendors can offer cost-effective alternatives but require careful testing .

Summary

For high-temperature resistant SFP modules, expect 1G modules around \$20–\$80, 10G SFP+ modules \$80–\$200, and higher-speed QSFP modules \$200+. Industrial-grade modules are essential for extreme environments, and sourcing from reputable vendors like FS Europe, Optcore, or QSFPTEK ensures both reliability and cost-effectiveness. Always confirm temperature ratings, compatibility, and vendor support before bulk procurement.

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