

Price list for high-precision QSFP optical modules for data center interconnection

Article Overview

QSFP module prices vary widely by type, reach, and vendor, ranging from under \$2,000 for short-reach 400G modules to over \$130,000 for long-haul coherent ZR+ modules, with third-party alternatives offering significant savings.

400G QSFP-DD Modules

- o SR8 (Short-Reach, in-rack/cross-row): \$1,400-\$1,800 from reputable third-party vendors; OEM prices may be slightly higher .
- o DR4/FR4 (Medium-Reach, between rows or campus links): Competitive third-party pricing due to market commoditization; exact prices vary but generally lower than OEM .
- o LR4 (Long-Reach): OEM modules can exceed \$10,000; third-party alternatives may offer substantial savings .
- o ZR/ZR+ (Coherent, long-haul DCI): OEM modules can cost over \$130,000; third-party options can reduce costs dramatically while maintaining compatibility .

800G QSFP-DD Modules

- o Pricing is still stabilizing; buyers can expect 60-70% of OEM list prices for proven third-party modules .
- o OEM modules are often preferred for critical workloads due to DOM integration and firmware compatibility, but third-party options are increasingly reliable and cost-effective .

100G QSFP28 Modules

- o SR4 (Short-Reach): Third-party modules can be as low as \$35 per module, delivering 100G connectivity at \$0.35 per Gbps .
- o LR4 (10 km single-mode): OEM modules may cost \$2,200 each, while third-party alternatives are available around \$280 per module .
- o CWDM4, FR1, LR1: Mature optics with multiple suppliers; third-party pricing is highly competitive, often matching OEM performance at a fraction of the cost .

Key Pricing Considerations

- o OEM vs Third-Party: OEM modules guarantee full vendor support; third-party modules are often MSA-compliant and tested for compatibility, offering significant cost savings .
- o Volume Discounts: Many vendors provide tiered pricing, which can reduce per-unit costs for large deployments .



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- o Total Cost of Ownership (TCO): Consider not only module price but also cabling (DAC for short distances, AOC for longer intra-row links), spares, and operational support .
- o Factors Affecting Cost: Engineering development, BOM, production, overhead, and profit margins influence final pricing; high-volume purchases and strategic vendor relationships can lower costs .

Practical Guidance

- o For in-rack or short-distance DCI, SR8 or SR4 modules from third-party vendors provide the best cost efficiency.
- o For medium-distance links, DR4/FR4 or CWDM4 modules balance performance and price.
- o For long-haul DCI, carefully evaluate ZR/ZR+ modules; third-party options can reduce costs but require validation for compatibility.
- o Always test third-party modules on your specific switch platforms to ensure reliability before large-scale deployment . This pricing overview provides a practical benchmark for planning QSFP optical module procurement in modern data center interconnect scenarios.

400G modules and applications 400G ZR is a standardized, interoperable 400G coherent interface specification available in the

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year

What Is QSFP? QSFP (Quad Small Form-factor Pluggable) is a high-density, multi-lane optical transceiver platform that aggregates

Below is a vendor-neutral, engineering-grade breakdown of the common QSFP+ Modules optical types. Each sub-type includes the

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Learn the differences between 200G DAC and 200G AOC cables, including QSFP56 and QSFP-DD form

The 100G QSFP28 module solution provides high-performance 100GbE connectivity for data centres, enterprise core & distribution

Find 40G optical transceivers that meet your system and network needs, including QSFP+ and a variety of cables enabling 40Gb/s

The Cisco 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD)

Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module's small size and low power make it an optimal

This product line is representative of the wide range of 100G modules on the market, with a comprehensive product line that enables

Efficient and consistent data transmission is significant in the rapidly changing technological environment. Without a

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