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Price List for Bestselling Low-Power Optical Modules for Data Center Interconnection



Overview

Find top fiber optic module data center solutions with low latency, high-density ports, and customizable options.

Key Takeaways

Low-power optical modules for data center interconnect range from under $2,000 for short-reach 400G SR8 modules to over $130,000 for long-haul coherent ZR+ modules, with third-party options offering significant savings.400G and 800G QSFP-DD Modules
• SR8 (Short-Reach, In-Rack/Cross-Row): $1,400–$1,800 from reputable third-party vendors; OEM prices may be slightly higher .

• DR4/FR4 (Medium-Reach, Data Center Rows/Campus Links): Prices are competitive in the third-party market, generally lower than OEM equivalents due to market compression .

• LR4 (Long-Reach): OEM modules can exceed $10,000; third-party alternatives can reduce costs significantly .



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• ZR/ZR+ (Coherent, Long-Haul DCI): OEM modules may exceed $130,000; third-party options provide the largest absolute savings for wide-area deployments .
SFP and SFP+ Modules
• 1G SFP (1000BASE-SX/LX): $5–$120 depending on OEM vs third-party, with compatible modules often in the $5–$25 range .

• 10G SFP+ (SR/LR): Compatible short-reach modules typically sell for tens of dollars, while OEM long-reach modules can reach hundreds of dollars .

• 25G/40G SFP/QSFP: Third-party modules can be 50–60% cheaper than OEM equivalents, with price reductions ranging from 18% to over 90% depending on the vendor and model .
Low-Power Module Considerations
• Power Consumption: Standard SFP modules consume 0.8–1.5 W; low-power variants reduce this by 20–35%, typically around 0.84 W per port .

• Energy Savings: For large-scale deployments, low-power modules significantly reduce OPEX and heat load without changing network architecture .

• Cost Efficiency: Choosing low-power third-party modules can optimize both CAPEX and OPEX, especially in high-density data center environments .
Procurement Tips
• OEM vs Third-Party: Third-party modules often provide substantial cost savings while maintaining compatibility and warranty support .

• Volume Discounts: Many suppliers offer tiered pricing for bulk orders; for example, orders of 10+ units may receive additional discounts .

• Total Cost of Ownership (TCO): Consider both purchase price and energy savings over time to evaluate the true cost of deployment . By selecting low-power, third-party optical modules tailored to your data center's reach requirements, you can achieve significant cost reductions while maintaining high performance and energy efficiency.

Article Content

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

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

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Introduction: Why Optical Modules Are Critical to Data Center Infrastructure In today''s cloud

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LPO transceivers cut power use, lower latency, and boost reliability in data centers, making them ideal for high-speed,

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Explore the ultimate guide to optical modules. Learn types, functions, performance metrics

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For this article, we screened companies with meaningful exposure to fiber optics, optical

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Exploring optical interconnects for AI data centers: LPO for low-power, short-distance links,

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Deep Dive: Optical Module Market

Powering next-gen connectivity: How optical modules enable fast, reliable data transfer, and What are the

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Find top fiber optic module data center solutions with low latency, high-density ports, and customizable options. Click to explore

Price List for 1G Low-Power Optical Modules for Data Center

Featuring a built-in Semtec chip and reliable DFB laser / PIN receiver, the SFP module delivers low power consumption and stable

800G Optical Module Cost Analysis | TCO Optimization Guide

Complete guide to 800G optical module costs and TCO optimization for AI data centers. Includes pricing analysis,

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Compare top SFP module manufacturers on price & quality. From SFP/SFP+/SFP28 to QSFP28, see which suppliers deliver reliable

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