

Price list for remote monitoring optical transceiver modules for data center interconnection



AI Overview

Optical transceiver modules for DCI range from approximately \$200 for 100G QSFP28 modules to over \$3,000 for 800G OSFP modules, depending on speed, form factor, and vendor. Overview of DCI Optical Transceivers Data center interconnect (DCI) relies on high-speed optical transceivers to connect servers, storage, and switches across multiple sites. Common form factors include: SFP28: 100G modules, widely used for short- and medium-range DCI links QSFP-DD / QSFP56: 200G–400G modules, supporting high-density deployments OSFP: 400G–800G modules, optimized for AI/ML clusters and hyperscale networks Modules support remote monitoring via Digital Diagnostics Monitoring (DDM), allowing real-time tracking of temperature, voltage, and optical power. Indicative Pricing Based on current market offerings: 100G QSFP28: \$200–\$500 per module, depending on vendor and reach (short-range SR, long-range LR) 200G QSFP-DD / QSFP56: \$800–\$1,500 per module, with options for PAM4 signaling and BiDi configurations 400G QSFP-DD: \$1,500–\$2,500 per module, often used in spine-leaf architectures for high-density data centers 800G OSFP: \$2,500–\$3,500+, early deployment modules for AI/ML clusters and hyperscale DCI Prices vary based on vendor, reach, wavelength, and supply chain conditions. Bulk purchases for hyperscale deployments may reduce per-unit cost, but operational costs such as cooling and power draw significantly affect total cost of ownership. Key Considerations Thermal Management: High-speed modules (400G–800G) generate significant heat; proper CRAC or liquid cooling is required. Compatibility: Ensure modules are MSA-compliant and compatible with existing switches and routers. Fib...

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

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Top Optical Transceiver Modules for Data Center Applications

Introduction: Why Optical Modules Are Critical to Data Center Infrastructure In today's cloud-first, AI-driven, and 5G-enabled landscape, optical transceiver modules play a pivotal role in

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