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Price list for QSFP laser diodes for data center interconnects

Overview

They ensure low latency, high reliability, and energy efficiency, supporting future-ready interconnect between distributed facilities.

Key Takeaways

QSFP laser diodes for data center interconnects range from around $1,400 for short-reach 400G modules to over $130,000 for long-haul coherent ZR+ modules, depending on type, distance, and vendor.Price Ranges by Module Type
• Short-Reach (SR8, in-rack connections): Typically $1,400–$1,800 from reputable third-party vendors, suitable for 400G in-rack or cross-row connectivity .

• Medium-Reach (DR4, FR4): Used for inter-row or campus links; prices are competitive due to a strong third-party market, generally $2,000–$5,000 depending on vendor and volume .

• Long-Reach (LR4, ZR, ZR+): OEM LR4 modules can exceed $10,000, while coherent ZR+ modules for long-haul DCI can surpass $130,000 . Third-party alternatives may offer significant savings, often 30–40% below OEM pricing.

• 800G QSFP-DD modules: Pricing is still stabilizing; buyers can expect 60–70% of OEM list prices for proven third-party modules .
Factors Affecting Price
• Transmission Distance: Longer distances require more sophisticated optics (e.g., coherent ZR/ZR+), increasing cost.

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• Vendor Type: OEM modules are more expensive but offer guaranteed compatibility and firmware support; third-party modules are cheaper but may require validation.

• Module Features: Digital Optical Monitoring (DOM), breakout capabilities, and energy efficiency can influence pricing.

• Market Maturity: 400G modules are highly commoditized, while 800G modules are still consolidating, affecting availability and cost .
Vendor Examples
• QSFPTEK: Offers 1G–400G optics with third-party compatible modules, claiming up to 90% cost reduction versus OEM while maintaining quality through rigorous testing and certifications .

• Link-PP: Provides QSFP28 100G, QSFP-DD 400G, and OSFP/QSFP-DD 800G modules, emphasizing AI-ready bandwidth and energy efficiency for hyperscale data centers .
Summary

For data center interconnects, short-reach 400G modules are the most cost-effective, while long-haul coherent ZR/ZR+ modules represent the largest expense. Third-party vendors can offer substantial savings, but careful consideration of compatibility, DOM, and firmware support is essential. Pricing for 800G modules is still evolving, with early adoption favoring OEMs for critical workloads .

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

QSFP28 Price Guide 2026: 100G Transceiver Costs & TCO

The price of a QSFP28 module depends on the module type, reach, coding, temperature grade, warranty, order

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100G QSFP28 Data Center Interconnect (DCI)□NADDOD

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QSFPTEK Transceiver Best Deals and Price List

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QSFPTEK is a one-stop optical transceiver manufacturer and seller. We provide 1G to 400G optics with a vast

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QSFP40G BiDi Short-reach Transceiver. 40GBASE-SR4 QSFP Transceiver Module with MPO Connector. QSFP 40GBASE-LR4

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QSFP+ 40Gb transceivers guide. Learn specs, compatibility, and benefits for efficient networking solutions.

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Optical transceivers in data center design are electro-optical conversion modules that dictate network bandwidth and physical reach.

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Pricing Guide for Buying Laser Diodes

In order to help, we put together a short list to help you at least figure out how much a “class” of laser diode might cost. This list is a

Cisco 40GBASE QSFP Modules Data Sheet

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The Cisco® 40GBASE QSFP (Quad Small Form-Factor Pluggable) portfolio offers customers a wide variety of high

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Check QSFP-40G price from the latest Cisco price list 2022.

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Cisco QSFP-100G-LR4-S= Overview The Cisco QSFP-100G-LR4-S= is a high-performance optical module tailored for enterprise

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The above characteristics enable Cisco''s QSFP-H40G-CU1M to be an excellent solution for high-density

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Cisco''s comprehensive portfolio of QSFP-DD modules support 400G and 800G data rates across copper, multimode

Cisco QSFP-40G-SR4 40GBASE-SR4 QSFP Module, MMF 100m, Price

Cisco QSFP-40G-SR4 Overview The Cisco QSFP-40G-SR4 is a high-performance QSFP transceiver module designed for

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QSFP Cables Explained: Types, DAC vs AOC, and Data Center Use

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QSFP-DD Hardware

The QSFP-DD/QSFP-DD800 modules shall meet all requirements and operate within the design specifications in the presence of a

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Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable

QSFP28 Active Optical Cable | Optical Interconnect | Amphenol

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Co-Packaged Optics in Modern Data Centres

In traditional switch hardware, data is sent over optical fibre using pluggable transceiver modules (SFP, QSFP, etc.)

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