

Price list for low-noise QSFP optical modules for data center interconnection



Article Overview

QSFP optical module prices vary widely by speed, 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 options offering significant cost savings.

400G QSFP-DD Modules

- Short-reach SR8 (in-rack connections): Under \$2,000 from reputable third-party vendors, ideal for low-latency, low-noise intra-rack links (OEM prices may be higher) .
- DR4/FR4 (row-to-row or campus links): Mid-range pricing; third-party modules are highly competitive, often 50% cheaper than OEM equivalents .
- LR4 (longer DCI links): OEM modules can exceed \$10,000; third-party alternatives can reduce costs significantly while maintaining low-noise performance .
- ZR/ZR+ (coherent long-haul DCI): OEM modules may exceed \$130,000; third-party options can offer substantial absolute savings, though careful attention to firmware and DOM compatibility is required .

800G QSFP-DD Modules

- Emerging market: Prices are still stabilizing; third-party modules typically cost 60–70% of OEM list prices .
- Use case: High-performance AI clusters or ultra-high-speed DCI where low-latency and low-noise operation are critical

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400G and 800G QSFP-DD optical modules play a key role in high-bandwidth, low-latency

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What Is The Optical Transceiver?The Common Type of Optical TransceiverActive Optical CableDirect Attach Copper CableOptical module is actually a device that can convert electrical signals into optical signals, thereby speeding up data transmission efficiency. It is mainly composed of: electrical chips, optical chips and optical components. In summary, optical transceivers are efficient data transmission devices. With the rapid development of artificial intelligence...See more on unitekfiber

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What is QSFP & QSFP+ Transceiver: An Ultimate Guide

QSFP, Quad Small Form Factor Pluggable, typically 40G transceiver for data center and telecom applications. Check

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QSFP Connector System

QSFP Connector System 28G NRZ, 56G PAM-4, 112G PAM-4, up to 100, 200 or 400 Gbps aggregate.

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Cisco QSFP28 100G ZR Digital Coherent Optics Module

The module also supports Precision Timing Protocol (PTP) Class C Timing, making it an ideal choice for low latency and precise

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QSFPTEK Online Store for Optical Transceivers

The official store for QSFPTEK. We provide compatible optical modules with online shopping function.

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QSFP-DD Optical Transceivers – MapYourTech

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative advancement in optical

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The Ultimate Guide to QSFP Cables: What You.

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A data center team buying SR4 for leaf-to-spine links within the same row is paying for simplicity. A telecom engineer

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