

Certified QSFP optical module 200G



AI Overview

200G QSFP optical modules, such as QSFP56 and QSFP-DD, enable high-speed 200 Gigabit Ethernet connectivity with four 50–56Gbps channels, supporting data center, AI, and enterprise networks. Key Features and Specifications QSFP56 (Quad Small Form-factor Pluggable 56) modules are designed for 200GbE applications, using four independent channels at 56Gbps each, achieving an aggregate 200Gbps data rate. These modules are hot-pluggable, compact, and support PAM4 modulation, which allows higher data throughput over the same fiber. They are compatible with 200GBASE Ethernet and can also support HDR over 2x InfiniBand, providing flexibility for network upgrades. QSFP-DD (Double Density) modules extend the QSFP form factor to support 8 channels, but can operate in 4-channel QSFP56 mode for 200G applications, offering backward compatibility with QSFP28 and QSFP56 ports. This allows network operators to split a 200G port into multiple lower-speed links, such as 2x100G or 4x50G, depending on the breakout configuration. Optical Technology 200G QSFP optical modules use laser arrays to convert electrical signals into optical signals for transmission over fiber. They typically operate at 850nm wavelength for multimode fiber (MMF) and can support distances up to 100 meters on OM4 MMF for 200GBASE-SR4 transceivers. Modules include Forward Error Correction (FEC) and high-performance amplifiers to maintain signal integrity over the transmission path. Use Cases Data Centers: High-density spine and leaf layer connections, AI/ML workloads, and high-performance computing networks. Enterprise Networks: Core and distribution layers requiring 200G connectivity. Service Providers: High-bandwidth links for aggregation and backbone networks. Copper and Breakout Options For short-reach connections, QSFP-200-CuM passive copper cables provide a cost-effective 200G link between adjacent racks or within a rack, available in lengths of 1–3 meters. Breakout cables like QSFP-4S50-CuM allow a single 200G port to c...

Article Content

Optical Module Technology Roadmap | 800G to 3.2T Evolution

Explore the future of optical module technology from 800G to 1.6T, 3.2T and beyond. Comprehensive roadmap covering silicon photonics, CPO, coherent datacom, and AI-optimized

200G QSFP56 FR4 PAM4 Optical Transceiver

200 Gb/s QSFP56 FR4 PAM4 Optical Transceiver is a small form-factor, high speed, and low power consumption product targeted for use in optical interconnects for data communications applications.

Cisco 400G QSFP-DD Ultra Long Haul Coherent Optics Module Data

The Cisco 400G QSFP-DD Ultra Long-Haul Coherent Optics Module enables 400G traffic anywhere over dense wavelength division multiplexing amplified networks, and is available in both C

200G Optical Transceivers: High-Density QSFP56 & QSFP-DD Modules

Shop high-performance 200G optical transceivers including QSFP56 and QSFP-DD form factors. Fully compliant with 200GBASE-SR4, FR4, and LR4 for AI data centers. Custom compatibility.

What factors influence 400G optical transceiver modules price?

Discover the key factors that drive 400G optical transceiver pricing—from form-factor and component costs to market dynamics and sustainability.

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry's highest bandwidth density while leveraging the backward compatibility to lower

200G QSFP56 Modules | PAM4 Optical Transceivers

200G QSFP56 transceivers with PAM4 modulation for high-speed data center connectivity. SR4 and FR4 options supporting 100m to 2km reach. MSA compliant.

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, cost comparison, vendor strategies, and ROI calculations for informed

QSFP-200G-SR4-A Arista Compatible 200GBASE-SR4 QSFP56

Arista Compatible QSFP56 200G Transceiver Module QuickSpecs Technical Specifications • 200GBASE-SR4 PAM4 Quad Small Form-factor Pluggable 56. • Standards based 200-Gigabit

Cisco 200G QSFP56 Cables and Transceiver Modules

The Cisco 200G QSFP-200-CuxM module (Figure 1) primarily enables high-bandwidth 200G links and supports 200G & 100G Ethernet rates. It provides a port-to-port passive copper direct-attach solution.

Huawei 40G QSFP Switch Guide: CE6800 & CE12800 Specs

Compare Huawei CloudEngine 40G switches (CE6800, CE12800), QSFP+ module compatibility (SR4/LR4), and deployment guidance for AI-ready Ethernet fabrics.

Understanding the QSFP-DD Standard: The Foundation of 400G Optical ...

LINK-PP has developed a complete line of QSFP-DD 400G optical modules fully compliant with SFF-8677, SFF-8679, and the QSFP-DD MSA. These transceivers are optimized for

Cisco QSFP-200G-SR4-S Compatible 200GBASE-SR4

The Cisco QSFP-200G-SR4-S Compatible QSFP56 Optical Transceiver Module is designed for 200GBASE Ethernet throughput over MTP/MPO-12 connectors

Pluggables, Power, and Geopolitics: Mapping the 800G and 1.6T Optical ...

2.3 The 1.6T Transition Timeline The progression to 1.6T is predicated on the maturity of 200G per lane electrical and optical interfaces. 2025 (Qualification & Early Ramp): Hyperscalers such

Optical Transceivers SFP SFP28 QSFP28 QSFP-DD 1G to 400G Range

OEM-compatible optical transceivers from 1G to 800G—SFP, SFP28, QSFP28, QSFP-DD & OSFP. MSA-compliant, TAA-certified, lifetime warranty. Find your module today.

200G Optical Transceivers | High-Speed QSFP56 Modules for Data

Boost network performance with 200G optical transceivers. Designed for data centers, 5G, and cloud infrastructure, our QSFP56 modules deliver low latency, high reliability, and seamless compatibility.

200G QSFP-DD/QSFP56 | Transceiver Modules

FS provides an expanding portfolio of 200G QSFP-DD/QSFP56 solutions featuring high-performance, high-bandwidth, and backward compatibility. The 200G

Tanlink Optics

Tanlink Optics Our high-speed optical transceivers, supporting 200G, 400G, and 800G capabilities, are engineered to meet the rigorous demands of InfiniBand and RoCE (RDMA over Converged Ethernet)

QSFP-200G-SR-MSA-AT ATGBICS | Fiber Optic

QSFP-200G-SR-MSA-AT - Transceiver Module Networking, General Purpose 200Gbps 850nm 3.3V MPO-12 Pluggable, QSFP56 from ATGBICS. View

400G PAM4 QSFP-DD DR4/DR4+ Transceiver

400 Gb/s DR4+ (Data Center Reach 4-lane) QSFP-DD Optical Transceiver is a small form-factor, high speed, and low power consumption product targeted for use in optical interconnects for data

200G QSFP56 Optical Transceiver Modules

200G QSFP56 modules use 4x50Gb/s PAM4 channels on 4 wavelengths near 1300nm or 850nm to achieve 200GE connectivity, compliant with IEEE 802.3cd -

NVIDIA LinkX Ethernet Optical Transceivers

NVIDIA ® LinkX ® Optics Ethernet transceivers are used to create high-speed, 100G-400G links supporting every configuration, reach, and speed in networks requiring detachable optical connectors.

Optical Transceiver Pricing: Cost Ranges by Speed and Type

4 e DAC/AOC where appropriate to avoid extra optics and patch-panel costs for short, fixed-length links. WOLON manufactures a broad optical module lineup (SFP, SFP+, SFP28, QSFP/QSFP28)

Contact Us

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