Cost of SD-WAN Equipment QSFP-DD



Overview

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year TCO analysis for data center buyers.

Key Takeaways

QSFP-DD transceivers for SD-WAN deployments range from $1,400 for short-reach 400G modules to over $130,000 for long-haul coherent ZR+ modules, with 800G modules generally priced at 60–70% of OEM list prices. QSFP-DD Module Pricing400G QSFP-DD Modules: Short-reach SR8 modules (in-rack or cross-row connections) cost $1,400–$1,800 from reputable third-party vendors, making them the most common entry point for high-speed SD-WAN deployments. DR4 and FR4 modules (for inter-row or campus links) are moderately priced, bridging short and medium distances.

LR4 modules (longer distances) can exceed $10,000 from OEMs, while ZR and ZR+ coherent modules for long-haul connections can reach $130,000, representing the largest line-item expense in wide-area SD-WAN networks. 800G QSFP-DD Modules: Pricing is less commoditized and still stabilizing. Buyers can expect 60–70% of OEM list prices for proven third-party 800G transceivers.

Early adoption often favors OEM modules for critical workloads due to firmware and DOM compatibility considerations. Cabling Costs: Direct Attach Copper (DAC) cables are cost-effective for short in-rack connections, typically around $120 for a 3-meter cable, offering significant savings compared to multiple SR8 modules. Active Optical Cables (AOCs) are required for longer intra-row or inter-rack distances and command a premium.



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SD-WAN Deployment ConsiderationsSD-WAN appliances using QSFP-DD modules benefit from high-bandwidth connectivity, supporting multiple transport types (fiber, LTE/5G, fixed wireless) and centralized management. Monthly recurring costs (MRC) for SD-WAN vary by bandwidth and vendor. For example, 2Gbps connections can range from $496 to $1,256 per month per site, reflecting differences in vendor pricing, throughput, and service features.

Total cost of ownership includes transceivers, cabling, SD-WAN appliances, and ongoing subscription fees, so module selection directly impacts both capital and operational expenses.

Summary

For SD-WAN deployments requiring QSFP-DD modules: Short-reach 400G SR8 modules: $1,400–$1,800Medium/long-reach 400G DR4/FR4/LR4 modules: $2,000–$10,000+Long-haul 400G ZR/ZR+ modules: up to $130,000800G modules: 60–70% of OEM pricing, with early adoption favoring OEMsCabling: DAC ~$120, AOC premium for longer distancesOperational costs: SD-WAN MRC varies widely by bandwidth and vendor, from ~$500 to $1,250 per month per site. Selecting the right QSFP-DD module type and vendor is critical to balancing performance, reach, and cost efficiency in SD-WAN networks.

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 TCO analysis for data center buyers.

400G QSFP-DD Price

400G QSFP-DD Transceiver,400G-FR4,Duplex LC,2km Duplex SMF. 400G QSFP-DD Transceiver, 400GBASE-DR4,MPO-12,500m parallel. 400G QSFP-DD Active Optical Cable, 10M. 400G QSFP

QSFP-DD Transceiver Guide 2026: Complete 400G/800G Deployment

Master QSFP-DD transceiver deployment for 400G/800G networks. Compare module types (SR8/DR4/FR4/LR4), cable options, pricing, and implementation best practices.

Cisco QSFP-DD800 Transceiver Modules Data Sheet

We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services,

How to Choose a Cost-Effective 400G QSFP-DD AOC: A

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However, with a plethora of brands, varying prices, and performance differences, selecting a cost-effective 400G QSFP-DD AOC can be challenging. This guide aims to help you

SD-WAN Cost / Pricing Guide: What You Need to Know in 2026

Discover SD-WAN pricing factors, compare vendor costs, and learn how to optimize your network budget with this comprehensive pricing guide

2x100GBASE-LR4 QSFP-DD | 10km SMF | EDGEOPTIC

Our 2x100GBASE-LR4 QSFP-DD transceiver provides reliable dual 100G connectivity for campus and metro networks. Supporting 10km transmission over single-mode fiber with 8 LAN WDM wavelengths

QSFPTEK Transceiver Best Deals and Price List

QSFPTEK hot sale transceivers include 10G SFP+, 40G QSFP+ and 100G QSFP28. With no compromise to quality, we cut 90% cost against OEM brands and 50% cost against other

400G QSFP-DD Cable and Transceiver Modules Data Sheet | FS

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. They are suitable for very short links and offer a cost-effective way to establish a 400-Gigabit link between QSFP-400G ports of

How much does SD-WAN cost?

There''s no uniform cost for SD-WAN because it varies widely based on bandwidth needs, deployment model, features, and functionalities.

How Much Does SD-WAN Cost? | Zpedia

Discover the ins and outs of SD-WAN cost, and learn how it can optimize your network efficiency and reduce expenses without compromising on security or performance.

What Are the Factors That Affect the Cost of SD-WAN?

In this article, you will learn about the pricing models of SD-WAN and what determines the overall cost of the solution.

How Much Does SD-WAN Cost Annually? What Factors Influence the

The cost of SD-WAN can be divided into several aspects: 1.1 Hardware Equipment Cost: Deploying SD-WAN often requires purchasing specific hardware equipment, such as edge devices and controllers.

How much does SD-WAN cost in 2026?

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SD-WAN costs depend on number of locations and users, and internet connection types. See 2026 Cisco Meraki hardware and license pricing for SMBs, with real-world scenarios.

400G Optical Modules Explained: SR4 Vs. DR4 Vs. FR4 Vs. LR4

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center network.

The Definitive SD-WAN Buyer''s Guide | SD-WAN Costs & Options

SD-WAN is scoped and priced in many different ways, so honing in on the right vendor and an adequate cost estimate begins with understanding software-defined wide-area networking

SD-WAN Costs 2026: $100-$500/Site + Save 50-84% vs MPLS

SD-WAN costs $100-$500 per site monthly depending on features and deployment model. Compared to MPLS, organizations typically save 50-84% on WAN costs. ROI is achieved

Connectivity in the Era of Big Data: Adapting with QSFP28, SFP-DD,

This article discusses the transition of server connection speeds in data centers from 10GE and 25GE to 100GE and beyond. It introduces QSFP28, SFP-DD, and DSFP optical

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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