Tariff Cost Co-packaged Optical QSFP-DD

AI Overview

The tariff cost for co-packaged QSFP-DD optical modules depends on U.S. import duties, module type, and vendor, with third-party modules often offering significant cost savings over OEM units.Overview of QSFP-DD ModulesQSFP-DD (Quad Small Form-factor Pluggable Double Density) modules are high-speed optical transceivers designed for 400G and 800G Ethernet applications, widely used in data centers, cloud computing, and high-performance networks . Co-packaged optics integrate these modules directly with switch ASICs to reduce power consumption and improve signal integrity, making them a strategic choice for hyperscale deployments .Pricing ConsiderationsThe cost of QSFP-DD modules varies dramatically depending on type and vendor. For example, 400G SR8 short-reach modules from third-party vendors typically range from $1,400 to $1,800, while long-haul coherent ZR+ modules from OEMs can exceed $130,000 per unit . The price difference is largely due to brand premiums, distribution markups, and proprietary coding, rather than differences in optical performance . Co-packaged modules may carry additional costs due to integration complexity and specialized packaging.Tariff ImplicationsU.S. tariffs on imported optical modules can affect the landed cost of QSFP-DD units. While specific duty rates vary by Harmonized Tariff Schedule (HTS) classification, optical transceivers are generally subject to import duties ranging from 0% to 25%, depending on country of origin and trade agreements . Co-packaged modules, being a newer technology, may fall under specialized HTS codes, potentially impacting tariff rates. Companies often mitigate these costs by sourcing from tariff-exempt countries or using third-party modules that are manufactured in regions with favorable trade terms.Total Cost of Ownership (TCO)When evaluating co-packaged QSFP-DD modules, tariffs should be considered alongside:Module type and reach (SR8, DR4, FR4, ZR+)Vendor choice (OEM vs third-party)Volume discounts and procurement str...

Article Content

LPO and CPO: A Pivotal Shift and Synergistic Evolution

Key functions include: Electro-Optical Conversion: Laser diodes modulate electrical signals into optical signals at the transmitter; photodetectors

Optical Modules Market Research Report 2034

The QSFP (Quad Small Form-factor Pluggable) form factor family, encompassing QSFP+, QSFP28, QSFP56, and QSFP-DD variants, was the dominant form

Hot-Pluggable Optical Modules Market: $15B by 2025, 12% CAGR

The continuous evolution of form factors, from SFP and QSFP to OSFP and QSFP-DD, ensures a consistent roadmap for higher data rates and improved spectral efficiency. Moreover, the

Global Optical Transceivers Market Research Report 2026: Trends ...

Comprehensive analysis of the optical transceivers market, covering market size, major manufacturers, product types, applications, and emerging technology trends like silicon photonics and co-packaged

QSFP-DD Linear Pluggable Optics (LPO)

Amphenol''s QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe ® Gen 5.0 over optical link, enabling

QSFP-DD Packaged Optical Module Market by Data Rate (Below

For QSFP-DD packaged optical modules, tariffs can touch multiple points across the bill of materials and finished-goods pathways, particularly when sub-components, assembly, and final

Coherent FTCE3326 Series Fiber Optic Transceivers – Mouser

Coherent FTCE3326 Series Fiber Optic Transceivers are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Coherent FTCE3326 Series Fiber Optic Transceivers.

QSFP-DD Packaged Optical Module Market, Report Size, Worth,

This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on QSFP-DD Packaged Optical Module competitive dynamics, regional economic

Global QSFP-DD Packaged Optical Module Market Research Report

QSFP-DD (Quad Small Form Factor Pluggable Double Density) is a small pluggable optical module that supports double-density interfaces and is designed for 400G Ethernet applications.

QSFP-DD Packaged Optical Module Market

The QSFP-DD Packaged Optical Module Market, valued at USD 6.48B in 2026, is projected to reach USD 12.85B by 2032, growing at a 11.8% CAGR.

Third-Party Optical Transceivers Market Report 2025

Third-Party Optical Transceivers Market Third-Party Optical Transceivers Market Dublin, May 28, 2025 (GLOBE NEWSWIRE) -- The "Third

Global QSFP-DD Packaged Optical Module Market Outlook, In-Depth ...

This definitive report equips CEOs, marketing directors, and investors with a 360° view of the global QSFP-DD Packaged Optical Module market, seamlessly integrating production capacity and sales

Optical Transceiver Market Size, Share, and Trends Analysis 2032

Optical Transceiver Market Analysis The market is witnessing a strong shift towards advanced optical modules such as QSFP-DD and CFP8, as network operators and cloud service providers upgrade

AI Optical Transceiver Market: $15.44B by 2025, 11.1% CAGR

Key players in the AI Optical Transceiver Market, such as Broadcom, Intel, NVIDIA, Cisco, and Coherent, are deeply entrenched in this segment, offering specialized solutions ranging from

#opticalnetworking #cfp2 #coherentoptics #800g #cpo # ...

□□ The optical transceiver keeps evolving — and the portfolio keeps expanding. CFP2 remains a workhorse for coherent metro and long-haul, with CFP2-DCO modules still widely deployed where ...

400GbE QSFP-DD Transceiver Modules | Optical

FS 400G QSFP-DD module solutions featuring high-performance, high-bandwidth, and cost-effectiveness, are ideal for 400GbE and data centres.

Commercial Optical Transceiver Market Trends & Forecast 2034

The Commercial Grade Optical Transceiver market is projected for 11.1% CAGR growth to 2034, driven by data center and enterprise network expansion. Analyze key segments and

Co-Packaged Optics 2022

With highly integrated optics and silicon chips, new engineering capabilities and foundries will be highly desired. Standardized electrical SerDes links for 224 Gb/s data rates to provide signaling over a

Global Optical Transceiver Market Strategic Audit 2026

QSFP-DD maintains relevance through backward compatibility in dense enterprise routing environments. QSFP28 / SFP28: Highly commoditized form factors standardizing sub-100G

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

This guide delivers clear, accurate pricing data. It breaks down the current costs for 400G and 800G modules, provides an objective comparison between OEM and third-party products,

What Factors Influence 400G Optical Transceiver Price

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

Cisco DP04QSDD-HE0 Compatible 100-400GbE DCO

Cisco DP04QSDD-HE0 Compatible 100G-400G QSFP-DD High-Power (Bright) DCO ≤80km Unamplified SMF DOM LC Duplex DWDM Tunable Coherent

Optical Module Technology Roadmap | 800G to 3.2T Evolution

QSFP-DD MSA: Defining thermal and electrical specifications for higher speeds CPO MSA: New MSA forming to standardize co-packaged optics interfaces Interoperability Testing: As

Co Packaged Optics (CPO) – Scaling with Light for the Next Wave of ...

This section will explore the evolution of the market from copper to co-packaged copper and from digital signal processor

Global QSFP-DD Packaged Optical Module Supply, Demand and Key

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply

Optical Transceiver Market Size, Growth Drivers

By form factor, QSFP28 and QSFP-DD devices held 38.72% share in 2025, while OSFP packages are on course for a 14.83% CAGR to 2031. By fiber

Contact Us

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