Tariff Costs Optical Transceiver Module SFP



Overview

SFP Module Price: Strategic Cost Analysis and TCO FactorsCompare SFP module prices, OEM vs third-party costs, and total cost of ownership (TCO). Learn what.

Key Takeaways

Optical transceiver modules like SFPs are classified under HTSUS 8517. 62. 0090 and may be subject to tariffs, which can significantly increase their market cost.

Customs Classification and Tariffs

Optical transceiver modules, including SFP, SFP+, QSFP, and CFP types, are compact, hot-pluggable devices that convert electrical signals to optical signals for network communication. In the United States, these modules are classified under HTSUS subheading 8517. 62.

0090, which covers “machines for the reception, conversion, and transmission of data, including switching and routing apparatus”. This classification determines the applicable customs duties when importing these modules. Historically, tariffs imposed on Chinese-manufactured optical transceivers during the Trump administration increased costs by approximately 25%, affecting large-scale buyers such as data centers and telecom operators.

While some countries or rulings may provide exemptions or nil duty under specific notifications, the general effect of tariffs is a direct increase in procurement costs for imported modules.

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Market Pricing

The street price of SFP modules varies widely depending on type, speed, and brand. For 1G SFPs, generic or compatible modules typically cost $5–$25, while OEM-branded modules can range from $60–$120 or more. For 10G SFP+ modules, compatible units often sell for tens of dollars, whereas OEM or long-reach modules can cost hundreds of dollars.

Tariffs on imports can further inflate these prices, particularly for modules sourced from countries subject to trade duties.

Import and Export Trends

Data from customs reports indicate that there are dozens of exporters and importers of optical transceiver modules under subchapter 8517, reflecting a global supply chain with major hubs in China. Tariffs disrupt this supply chain, leading to higher costs, potential delays, and strategic sourcing adjustments for enterprises.

Practical Implications

Procurement Planning: Buyers should account for both base module cost and potential tariffs when budgeting for network upgrades.

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M vs Compatible Modules: Compatible third-party modules can mitigate cost increases from tariffs but may have warranty or compatibility considerations. Supply Chain Strategy: Companies may diversify suppliers or source from tariff-exempt regions to reduce cost impact. In summary, tariff costs can significantly affect the total cost of SFP optical transceivers, and understanding both customs classification and market pricing is essential for accurate budgeting and procurement planning.

Article Content

SFP Module Price: Strategic Cost Analysis and TCO Factors

Compare SFP module prices, OEM vs third-party costs, and total cost of ownership (TCO). Learn what drives SFP pricing and how to choose the best value.

Optical Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

Customs Ruling NY N336394

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This item is a single mode transceiver in a small form-factor pluggable (SFP) module for serial optical data communications with an operating data rate of 11.3Gbps and transmission distance of up to 10

SFP / SFP+ / QSFP Transceiver Module (Fibre Optic Network) HS

Actual duties may differ based on country of origin, applicable trade agreements (e.g. GSP, CETA, UK-EU TCA), anti-dumping measures, or changes to tariff schedules.

How to Reduce Optical Module Costs | SFP & QSFP Cost

In today''s rapidly evolving network environments, reducing operational costs is a top priority for data centers, telecom operators, and system integrators. However, when it comes to

Trump Tariffs Impact on Optical Transceiver Market

This article delves into the complex and far-reaching effects of the Trump-era tariffs on the global optical transceiver industry. It covers cost implications, supply chain disruptions, strategic

HS Code for sfp transceiver Update June 2026

Find comprehensive sfp transceiver HS codes for international trade and customs classification with tariff codes for import-export compliance

CROSS Ruling

In your letter dated December 4, 2018, you requested a tariff classification ruling. The merchandise concerned is referred to as non-coded and non-programmed optical transceivers (part

Optical Transceiver Module Imports Under Sub Chapter 8517

Information and reports on Optical Transceiver Module Imports Under Sub Chapter 8517 along with detailed shipment data, import price, export price, monthly trends, major exporting countries

Optical Transceiver Modules, HUAWEI Cisco SFP SFP+ QSFP

Deploy software configurable line rates and modulation schemes for long-reach amplified DWDM systems or dark fiber systems. Support line rates up to 400 Gbps over a single-fiber bidirectional

Cisco SFP Modules for Gigabit Ethernet Applications

Cost-effective Small Form-Factor Pluggable (SFP) transceivers for Gigabit Ethernet applications Product overview The industry-standard Cisco

Optical Transceiver Market Size, Share, and Trends Analysis 2032

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The global Optical Transceiver market size was estimated at USD 13.08 Billion in 2024 and is estimated to grow at a CAGR of 15.41% from 2025 to 2032.

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

The Hot-Pluggable Optical Modules market is projected to reach $15 billion by 2025, expanding at 12% CAGR. Growth is driven by cloud services, data centers, and AI infrastructure.

Optical Module PCB Board Market: Drivers & 6.6% CAGR Impact?

The Optical Module PCB Board market is projected for 6.6% CAGR growth by 2025, driven by evolving tech applications. Access specific market values and company insights.

Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable

Trump Tariffs Impact on Optical Transceiver Market

The far-reaching impact of Trump-era tariffs on the optical transceiver market, including supply chain disruptions, rising costs, innovation shifts, and strategic adaptations shaping the future

Sfp Transceiver Exports Under Sub Chapter 8517

Information and reports on Sfp Transceiver Exports Under Sub Chapter 8517 along with detailed shipment data, import price, export price, monthly trends, major exporting countries countries, major

Armored Fiber Optic Cables

FS provides 50/25/10/1G transceivers modules in SFP/SFP28/SFP56/QSFP28 form factor, supporting transmission distances from 30m to 160km over SMF/MMF fiber and enabling low power and cost

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