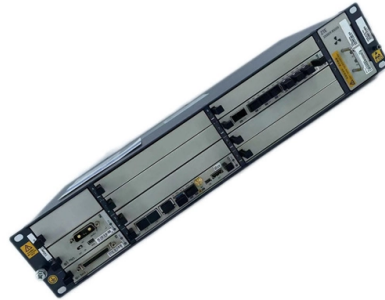


Tariff costs for active optical devices 1 6T



AI Overview

1.6T Active Optical Devices, including OSFP-XD transceivers and AOCs, typically range from \$2,500 to \$6,000 per module, depending on type, distance, and vendor.

Pricing Overview

Transceivers

1.6T OSFP-XD DR8 optical transceivers for 2 km single-mode fiber are high-performance modules suitable for AI and data center applications, with prices generally in the \$3,000–\$6,000 range depending on manufacturer and certification (FiberMall). Shorter-range modules, such as 500m 2xDR4 OSFP1600 transceivers, are more cost-effective, often priced around \$2,500–\$3,500 per unit (FiberWDM, Miljet).

Active Optical Cables (AOCs)

OSFP-XD 1.6T AOCs are designed for high-density, low-latency interconnects in AI clusters and hyperscale data centers. While individual cable prices vary by length and configuration, market reports suggest that high-end 1.6T AOCs are priced similarly to transceivers, often in the \$2,500–\$5,000 range per cable.

Factors Affecting Price

Distance: Longer transmission distances (e.g., 2 km vs 500 m) increase cost.

Channel Count and Modulation: DR8 modules (8 lanes) are more expensive than DR4 (4 lanes).

Vendor and Certification: OEM-certified modules from NVIDIA, Broadcom, or Cisco-compatible vendors may carry a premium.

Market Demand: The surge in AI workloads and hyperscale cloud deployments has driven up demand, influencing pricing trends.

Summary

Short-range 1.6T transceivers (500m, 2xDR4): ~\$2,500–\$3,500

Longer-range 1.6T transceivers (2 km, DR8): ~\$3,000–\$6,000

1.6T Active Optical Cables: ~\$2,500–\$5,000 depending on length and configuration

These prices reflect current market conditions for high-speed optical interconnects used in AI and data center environments, and may vary slightly depending on vendor, bulk orders, and regional availability.

Article Content

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The ability to deliver high-performance, reliable, and cost-effective 1.6T optical modules is critical for winning large-scale contracts with hyperscale operators and service providers.

Global 1.6T Optical Transceiver Market Research Report 2025(Status

The market for 1.6T transceivers is driven by hyperscale data center expansion, the proliferation of bandwidth-intensive services, and the need for scalable, cost-effective solutions to reduce

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Tariff Costs for Active Optical Devices 400G

The Harmonized Tariff Schedule of the United States (HTS) sets out the tariff rates and statistical categories for all merchandise imported into the United States.

Accelerate 1.6T Optical Transceiver Testing Without

Massive leaps in fields such as AI and ML are intensifying the need for 1.6T data center networks. Learn how to speed up 1.6T optical transceiver

OSFP-XD 1.6T Active Optical Cable Market Research

The OSFP-XD 1.6T Active Optical Cable market was valued at \$1.8 billion in 2025 and is projected to reach \$9.7 billion by 2034, growing at a CAGR of 20.6%.

1.6T Optical Module Market Report: Trends and Growth

This unique report description offers an unparalleled deep dive into the burgeoning 1.6T Optical Module market, a critical enabler for the next generation of AI data

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The Harmonized Tariff Schedule of the United States (HTS) sets out the tariff rates and statistical categories for all merchandise imported into the United States.

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1.6T Optical Module Market Competitive Landscape

The 1.6T Optical Module Market was valued at 2.6 (USD Billion) in 2025 and is projected to grow to 6.5 (USD Billion) by 2035, at a CAGR of 9.6%. By

Contact Us

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