

## CIF price 1 6T optical module 1G



### Overview

Each module integrates eight electrical and eight optical channels operating at 212.5 Gbps PAM4 per lane for an aggregate data rate of 1.6 Tbps. With integrated DSP and silicon photonics (SiPh) technology, it provides excellent signal integrity and reach up to 500 km. The relentless expansion of data communication, propelled by advancements in artificial intelligence (AI) and machine learning workloads, as well as cloud computing, cloud storage, AR/VR, video on demand, 5G technology, the Internet of Things, and autonomous vehicles, demands a substantial increase. The demand for 1.6 Tbps optical module market size reached USD 1.5 billion from 2025 to 2030. The 1.6 terabits per second (Tbps), primarily used in data centers, telecommunications networks, and high-performance computing environments to meet the growing demand for ultra-high bandwidth and low latency. Broadcom's Optical Module PHY portfolio spans multiple technology nodes — 16nm, 7nm and now 5nm, with data rates from 100 Gbps to 1.6 Tbps. Comprising five flagship platforms, Centenario, Jesko, Portofino, Gemera, and Cygnus, Broadcom's DSP PAM-4

portfolio covers 100G, 400G, 800G, and 1.

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In summary, the surging demand for 800G and 1.6T optical modules—driven by AI computing clusters, hyperscale data centers, and next-generation cloud architectures—has positioned high-speed optical ...



Broadcom's Active Copper PHY portfolio enables DAC cable providers to build very low insertion-loss profile, ultra-low latency, ultra-low power cables for 100G/400G/800G/1.6T hyperscale/AI networks ...



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This report profiles key players in the global 1.6T Optical Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, ...



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 ...



To address these challenges, 1.6T optical modules deliver higher bandwidth and improved performance, enabling high-speed, low-latency connectivity for large-scale AI clusters. This ...



This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on 1.6T High-speed Optical Modules competitive dynamics, regional economic ...



The 1.6T optical module market is segmented by product type into Pluggable Optical Modules, Embedded Optical Modules, and On-board Optical Modules. Pluggable optical modules are currently ...



This architecture is similar to that of the 800G 2 × FR4, but this solution features eight high-speed MZMs operating at 200 Gbps, simplifying the design of 1.6T optical modules on an OSFP platform.



Find top 1.6T optical modules with QSFP-DD, PAM4, and 1310nm wavelength. Compare prices, MOQs, and supplier ratings. Click to discover verified suppliers and customize your order today.

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