

# Global 1.6T Optical Modules Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 1.6T Optical Modules market size is expected to reach \$ 10540 million by 2032, rising at a market growth of 23.4% CAGR during the forecast period (2026-2032).

In 2025, the global production of 1.6T optical module reached approximately 778,000 units, with an average global market price of around US\$3,000 per unit. In the same year, the global total production capacity of 1.6T optical module reached 970,000 units. The industry average gross profit margin of this product reached 32%. 1.6T optical modules refer to high-speed optical communication devices for data centers with a single-channel total bandwidth of 1600Gbps, used to achieve high-speed photoelectric signal conversion between switches, servers, and AI computing clusters. These modules are typically based on a 200G/lane ? 8-channel architecture, using high-speed packaging such as OSFP or OSFP-XD, and internally integrate high-speed DSP chips, silicon photonics or EML lasers, and photoelectric conversion devices to achieve short-distance, medium-distance, and even long-distance transmission capabilities. 1.6T optical modules represent the next generation of mainstream speed products after 800G, with the core objective of meeting the extreme demands for bandwidth density and power efficiency in AI large-scale model training and ultra-large-scale data centers.

The 1.6T optical module industry chain consists of upstream core chips and optical devices, midstream module manufacturing and packaging, and downstream data center and cloud computing applications. The upstream sector includes high-speed DSP chips, lasers and optical chips, and silicon photonics platforms; the midstream consists of optical module manufacturers responsible for high-speed integration, packaging, and mass production; and the downstream comprises AI and cloud computing giants, including NVIDIA, Google Cloud, and Amazon Web Services, used for GPU cluster interconnection and data center network upgrades. This forms a global division of labor

system characterized by 'chip dominance, device support, module integration, and cloud-driven development.'

With generative AI and large-scale model training driving exponential growth in computing power demand, data center internal traffic is rapidly upgrading from 400G to 800G and then to 1.6T. Therefore, 1.6T optical modules have become a key node in next-generation network infrastructure. This product is not only used in traditional cloud data centers but also widely applied in AI training clusters, supercomputing centers, and ultra-large-scale switching networks. Its core value lies in significantly increasing bandwidth density per rack and reducing power consumption per bit. The industry is expected to enter a small-scale commercialization phase around 2025, and a large-scale deployment cycle is anticipated from 2026 to 2028. Driven by AI infrastructure investment, it is expected to maintain high-speed growth for many years, while laying the foundation for future 3.2T and CPO technology evolution.

This report studies the global 1.6T Optical Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1.6T Optical Modules and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 1.6T Optical Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 1.6T Optical Modules total production and demand, 2021-2032, (K Units)

Global 1.6T Optical Modules total production value, 2021-2032, (USD Million)

Global 1.6T Optical Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 1.6T Optical Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 1.6T Optical Modules domestic production, consumption, key domestic manufacturers and share

Global 1.6T Optical Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 1.6T Optical Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 1.6T Optical Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 1.6T Optical Modules market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include InnoLight Technology, Eoptolink Technology, Accelink Technologies, Solis Optoelectronics, Nokia Corporation, Sont Technologies, Cisco Systems, Lumentum Holdings, Broadcom Inc., Marvell Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 1.6T Optical Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 1.6T Optical Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global 1.6T Optical Modules Market, Segmentation by Type:

Silicon Photonics

EML

VCSEL

Coherent Optical Light

### Global 1.6T Optical Modules Market, Segmentation by Packaging Form:

OSFP

OSFP-XD

QSFP-DD

### Global 1.6T Optical Modules Market, Segmentation by Transmission Distance:

DR8 / DR4 (?500 meters)

FR4 (2km)

LR4 (10km)

Others

### Global 1.6T Optical Modules Market, Segmentation by Application:

Data Centers

Telecommunications Backbone Networks

Others

Companies Profiled:

InnoLight Technology

Eoptolink Technology

Accelink Technologies

Solis Optoelectronics

Nokia Corporation

Sont Technologies

Cisco Systems

Lumentum Holdings

Broadcom Inc.

Marvell Technology

OpenLight Photonics

Sumitomo Electric Industries

Lessengers

Samsung Electronics

Optech Technology

Foxconn Interconnect Technology

Fabrinet

Celestica

Coherent Corp

Universal Scientific Industrial (USI)

AOI

Source Photonics

Jabil Inc

SENKO Advanced Components, Inc.

#### Key Questions Answered:

1. How big is the global 1.6T Optical Modules market?
2. What is the demand of the global 1.6T Optical Modules market?
3. What is the year over year growth of the global 1.6T Optical Modules market?
4. What is the production and production value of the global 1.6T Optical Modules market?
5. Who are the key producers in the global 1.6T Optical Modules market?
6. What are the growth factors driving the market demand?

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