

Global 1.6T Optical Modules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 1.6T Optical Modules market size was valued at US\$ 2404 million in 2025 and is forecast to a readjusted size of US\$ 10540 million by 2032 with a CAGR of 23.4% during review period.

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 is a detailed and comprehensive analysis for global 1.6T Optical Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 1.6T Optical Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 1.6T Optical Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 1.6T Optical Modules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 1.6T Optical Modules market shares of main players, shipments in revenue (\$

Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 1.6T Optical Modules

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 1.6T Optical Modules market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

1.6T Optical Modules market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Silicon Photonics

EML

VCSEL

Coherent Optical Light

Market segment by Packaging Form

OSFP

OSFP-XD

QSFP-DD

Market segment by Transmission Distance

DR8 / DR4 (?500 meters)

FR4 (2km)

LR4 (10km)

Others

Market segment by Application

Data Centers

Telecommunications Backbone Networks

Others

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 1.6T Optical Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 1.6T Optical Modules, with price, sales quantity, revenue, and global market share of 1.6T Optical Modules from 2021 to 2026.

Chapter 3, the 1.6T Optical Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 1.6T Optical Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 1.6T Optical Modules market forecast, by regions, by Type, and by

Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 1.6T Optical Modules.

Chapter 14 and 15, to describe 1.6T Optical Modules sales channel, distributors, customers, research findings and conclusion.

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