

# Global 1.6T High-speed Optical Module 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 High-speed Optical Module market size was valued at US\$ 2020 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 654,300 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 810,000 units. The industry average gross profit margin of this product reached 32%. A 1.6T high-speed optical module refers to an optical communication module with a total transmission rate of 1.6Tbps (1600Gbps) for single or multiple channels. It is used to achieve ultra-high-speed photoelectric signal conversion and data transmission between data centers, hyperscale cloud computing networks, and AI computing clusters. It is typically based on high-speed optoelectronic chips and a multi-channel parallel optical architecture, utilizing high-order modulation technologies such as PAM4 to further improve bandwidth density and energy efficiency beyond 400G and 800G. It is one of the core foundational components for next-generation AI computing networks and ultra-high-speed interconnects.

The upstream of the 1.6T high-speed optical module industry chain mainly includes two core segments: optical chips and electrical chips. Optical chips include lasers, modulators, and detectors (PDs), while electrical chips are centered around DSPs, driver chips, and TIAs. The midstream consists of optical module manufacturers responsible for integrating optoelectronic chips, optical components, PCBs, and packaging processes into complete 1.6T modules. Downstream applications are mainly

concentrated in hyperscale cloud data centers, AI training clusters, high-performance computing (HPC) centers, and data center interconnect (DCI) networks. The entire industry chain is highly dependent on high-end semiconductor manufacturing capabilities, advanced packaging processes, and high-speed signal integrity design capabilities, making it a typical industry deeply integrated with 'optics + electronics + packaging + systems.'

The market prospects for 1.6T high-speed optical modules are primarily driven by the explosive growth in demand for AI large-scale model training. As GPU clusters evolve from tens of thousands to hundreds of thousands or even millions of GPUs, bandwidth demands within data centers and between data centers are growing exponentially, driving the rapid upgrade of optical modules from 400G and 800G to 1.6T. Simultaneously, new architectures such as CPO and LPO are reshaping the industry's technology roadmap, potentially significantly reducing power consumption and latency. In the next 3-5 years, 1.6T will gradually become one of the mainstream interconnect speeds for high-end AI data centers, with the market size expected to maintain high double-digit or even near-doubling growth, while simultaneously driving the continued expansion of the upstream DSP, silicon photonics chip, and advanced packaging industry chains.

This report is a detailed and comprehensive analysis for global 1.6T High-speed Optical Module 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 High-speed Optical Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 1.6T High-speed Optical Module 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 High-speed Optical Module 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 High-speed Optical Module 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 High-speed Optical Module

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 High-speed Optical Module 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 Nokia Corporation, Sont Technologies, Cisco Systems, Samsung Electronics, Optech Technology, Eoptolink Technology, Accelink Technologies, Universal Scientific Industrial (USI), Jabil, AOI, etc.

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

## Market Segmentation

1.6T High-speed Optical Module 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

Nokia Corporation

Sont Technologies

Cisco Systems

Samsung Electronics

Optech Technology

Eoptolink Technology

Accelink Technologies

Universal Scientific Industrial (USI)

Jabil

AOI

InnoLight Technology

Solis Optoelectronics

Broadcom Inc.

Marvell Technology

Sumitomo Electric Industries

Lessengers

Coherent Corp.

Lumentum Holdings

Fabrinet

Celestica

OpenLight Photonics

Foxconn Interconnect Technology

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 High-speed Optical Module product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the 1.6T High-speed Optical Module 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 High-speed Optical Module 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 High-speed Optical Module.

Chapter 14 and 15, to describe 1.6T High-speed Optical Module sales channel, distributors, customers, research findings and conclusion.

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