

# Global On-Board Optics 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 On-Board Optics Modules market size was valued at US\$ 2778 million in 2025 and is forecast to a readjusted size of US\$ 9339 million by 2032 with a CAGR of 18.8% during review period.

In 2025, global On-Board Optics Module output reached about 45 million units and global capacity of around 55 million units. The average price is about USD 60 per unit, with gross margins near 38%. On-Board Optics (OBO) Modules are high-speed optical communication modules mounted directly onto a switch, router, accelerator, or server motherboard inside data center and telecom equipment, instead of using pluggable optical transceivers at the front panel. OBO modules integrate optical engines, lasers, photodetectors, driver ICs, DSP chips, fiber connectors, and thermal management components to provide ultra-high bandwidth, lower power consumption, reduced signal loss, and improved port density for AI clusters, hyperscale cloud data centers, high-performance computing (HPC), and next-generation telecom networks. The supply chain starts upstream with semiconductor wafers, silicon photonics chips, III-V laser materials, optical lenses, optical fibers, substrates, PCBs, DSP/ASIC chips, and packaging materials supplied by photonics, semiconductor, and specialty materials companies. Midstream activities include optical engine manufacturing, co-packaged optics integration, precision optical alignment, advanced packaging, and assembly/testing performed by optical module manufacturers and network hardware OEMs. Downstream sectors include hyperscale cloud providers, AI data centers, telecom operators, enterprise networking, supercomputing systems, and edge computing infrastructure, where OBO modules are deployed in Ethernet switches, InfiniBand systems, AI accelerators, and ultra-high-speed interconnect platforms

supporting 400G, 800G, 1.6T, and future optical networking architectures.

This report is a detailed and comprehensive analysis for global On-Board Optics 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 On-Board Optics Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global On-Board Optics 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 On-Board Optics 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 On-Board Optics 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 On-Board Optics 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 On-Board Optics 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 Broadcom, Cisco, Intel, Marvell, Coherent, Lumentum, Ayar Labs, Ranovus, POET Technologies, Ciena, etc.

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

## Market Segmentation

On-Board Optics 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

100G OBO Modules

200G OBO Modules

400G OBO Modules

800G OBO Modules

1.6T OBO Modules

### Market segment by Wavelength

850 nm

1310 nm

1550 nm

### Market segment by Application

Data Centers

Telecommunications

Enterprise Networking

Others

#### Major players covered

Broadcom

Cisco

Intel

Marvell

Coherent

Lumentum

Ayar Labs

Ranovus

POET Technologies

Ciena

NeoPhotonics

MACOM

Scintil Photonics

Rockley Photonics

DustPhotonics

Furukawa Electric

Sumitomo Electric

InnoLight Technology

Accelink Technologies

Eoptolink 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 On-Board Optics Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of On-Board Optics Modules, with price, sales quantity, revenue, and global market share of On-Board Optics Modules from 2021 to 2026.

Chapter 3, the On-Board Optics Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the On-Board Optics 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 On-Board Optics 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 On-Board Optics Modules.

Chapter 14 and 15, to describe On-Board Optics Modules sales channel, distributors, customers, research findings and conclusion.

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