

Global Mid-Board Optical Transceivers 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 Mid-Board Optical Transceivers market size was valued at US\$ 3169 million in 2025 and is forecast to a readjusted size of US\$ 9995 million by 2032 with a CAGR of 17.8% during review period.

In 2025, global Mid-Board Optical Transceiver output reached about 28 million units and global capacity of around 35 million units. The average price is about USD 110 per unit, with gross margins near 39%. Mid-Board Optical Transceivers are high-speed optical communication modules mounted directly onto the printed circuit board (PCB) inside switches, routers, AI servers, HPC systems, and data center equipment, rather than on the front panel like traditional pluggable optics. They are designed to shorten electrical trace lengths between switch ASICs, GPUs, or accelerators and the optical engine, thereby reducing signal loss, lowering power consumption, improving thermal efficiency, and enabling ultra-high bandwidth transmission such as 800G, 1.6T, and future 3.2T interconnects. These transceivers typically integrate silicon photonics chips, DSPs (digital signal processors), laser sources, modulators, photodetectors, optical engines, advanced packaging substrates, and fiber connector assemblies. The supply chain begins upstream with semiconductor wafer suppliers, III-V compound semiconductor materials, silicon photonics foundries, DSP chip developers, optical IC manufacturers, laser diode producers, PCB and substrate suppliers, and precision connector/fiber component vendors. Midstream participants include optical engine manufacturers, co-packaged optics (CPO) developers, transceiver OEMs, and advanced packaging/assembly providers that integrate optics, ASICs, and thermal management systems. Downstream demand mainly comes from hyperscale cloud data centers, AI infrastructure providers, telecom backbone networks, high-performance computing

(HPC) systems, and enterprise networking equipment manufacturers seeking higher bandwidth density and lower energy consumption for next-generation optical interconnect architectures.

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

Global Mid-Board Optical Transceivers 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 Mid-Board Optical Transceivers 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 Mid-Board Optical Transceivers 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 Mid-Board Optical Transceivers

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 Mid-Board Optical Transceivers 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, Marvell, Cisco, Intel, Coherent, Lumentum, Ciena, MACOM, Ayar Labs, Ranovus, etc.

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

Market Segmentation

Mid-Board Optical Transceivers 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

Passive-Cooled Transceivers

Active-Cooled Transceivers

Market segment by Data Rate

100G

200G

400G

800G

1.6T

Market segment by Application

Hyperscale Data Centers

AI Infrastructure

Telecommunications

Enterprise Networking

Others

Major players covered

Broadcom

Marvell

Cisco

Intel

Coherent

Lumentum

Ciena

MACOM

Ayar Labs

Ranovus

Furukawa Electric

Sumitomo Electric

Fujitsu

Accelink Technologies

InnoLight Technology

Hisense Group

Eoptolink Technology

Huawei

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 Mid-Board Optical Transceivers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Mid-Board Optical Transceivers 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 Mid-Board Optical Transceivers 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 Mid-Board Optical Transceivers.

Chapter 14 and 15, to describe Mid-Board Optical Transceivers sales channel, distributors, customers, research findings and conclusion.

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