

# Global Mid-Board Optical Transceivers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD972280A5F6EN.html>

Date: June 2026

Pages: 145

Price: US\$ 4,480.00 (Single User License)

ID: GD972280A5F6EN

## Abstracts

The global Mid-Board Optical Transceivers market size is expected to reach \$ 9995 million by 2032, rising at a market growth of 17.8% CAGR during the forecast period (2026-2032).

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 studies the global Mid-Board Optical Transceivers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mid-Board Optical Transceivers 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 Mid-Board Optical Transceivers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mid-Board Optical Transceivers total production and demand, 2021-2032, (K Units)

Global Mid-Board Optical Transceivers total production value, 2021-2032, (USD Million)

Global Mid-Board Optical Transceivers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Mid-Board Optical Transceivers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Mid-Board Optical Transceivers domestic production, consumption, key domestic manufacturers and share

Global Mid-Board Optical Transceivers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Mid-Board Optical Transceivers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Mid-Board Optical Transceivers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Mid-Board Optical Transceivers 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Mid-Board Optical Transceivers 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 Mid-Board Optical Transceivers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Mid-Board Optical Transceivers Market, Segmentation by Type:

Passive-Cooled Transceivers

Active-Cooled Transceivers

### Global Mid-Board Optical Transceivers Market, Segmentation by Data Rate:

100G

200G

400G

800G

1.6T

### Global Mid-Board Optical Transceivers Market, Segmentation by Application:

Hyperscale Data Centers

AI Infrastructure

Telecommunications

Enterprise Networking

Others

### Companies Profiled:

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

#### Key Questions Answered:

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

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