

# Global Data Center High-Speed 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 Data Center High-Speed Optical Transceivers market size was valued at US\$ 8695 million in 2025 and is forecast to a readjusted size of US\$ 13396 million by 2032 with a CAGR of 6.3% during review period.

In 2025, the global production capacity of data center high-speed optical transceivers was approximately 28.2 million units, while actual production reached around 21.1 million units. The average market price was about US\$ 400 per unit, with gross profit margins ranging from 25% to 45%. Production is concentrated in regions with mature optical component manufacturing and semiconductor assembly capabilities.

High-speed optical transceivers convert electrical signals to optical signals and vice versa, enabling high-speed data transmission within data centers. They support bandwidths from 10 Gbps to 400 Gbps or higher, and are essential for cloud computing, AI, and high-performance computing networks.

The industrial chain includes upstream materials such as semiconductor lasers, photodetectors, optical fibers, and electronic ICs. Midstream processes include optical module assembly, testing, packaging, and quality assurance. Downstream applications cover hyperscale data centers, cloud service providers, telecom networks, and enterprise server farms, with supporting services such as calibration, system integration, and technical support.

The data center high-speed optical transceiver market is expanding rapidly due to surging global data traffic, cloud computing, and AI workloads. The growing demand for

higher bandwidth and lower latency drives adoption of 100G, 200G, and 400G optical transceivers. Hyperscale data centers and enterprise server farms are investing heavily in upgrading network infrastructure. Key technological trends include miniaturization, improved thermal management, digital diagnostic integration, and energy efficiency. Manufacturers focus on high-yield production, cost optimization, and rapid time-to-market to meet escalating demand. Overall, the market is expected to maintain strong growth as data centers expand and high-speed interconnect solutions become critical for modern IT and cloud services.

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

Global Data Center High-Speed 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 Data Center High-Speed 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 Data Center High-Speed 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 Data Center High-Speed 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 Data Center High-Speed 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 II?VI (Finisar), Broadcom (Avago), Lumentum (Oclaro), Sumitomo, Accelink, Fujitsu, Cisco, NeoPhotonics, Ciena, Molex (Oplink), etc.

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

### **Market Segmentation**

Data Center High-Speed 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

100G Optical Transceiver

200G Optical Transceiver

400G Optical Transceiver

Others

#### Market segment by Form Factor

SFP28 Transceiver

QSFP28 Transceiver

QSFP-DD Transceiver

OSFP Transceiver

Others

#### Market segment by Application

Cloud Data Centers

Enterprise Data Centers

Telecom Data Centers

High-Performance Computing

Others

#### Major players covered

II?VI (Finisar)

Broadcom (Avago)

Lumentum (Oclaro)

Sumitomo

Accelink

Fujitsu

Cisco

NeoPhotonics

Ciena

Molex (Oplink)

Huawei

Infinera

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 Data Center High-Speed Optical Transceivers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Data Center High-Speed 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 Data Center High-Speed 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 Data Center High-Speed Optical Transceivers.

Chapter 14 and 15, to describe Data Center High-Speed Optical Transceivers sales channel, distributors, customers, research findings and conclusion.

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