

Global AI-focused Optical Transceiver 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 AI-focused Optical Transceiver market size was valued at US\$ 98 million in 2025 and is forecast to a readjusted size of US\$ 683 million by 2032 with a CAGR of 23.1% during review period.

An AI-focused Optical Transceiver is a high-speed optical communication module specifically designed to support the extremely large bandwidth, low latency, and high port-density requirements of Artificial Intelligence (AI) infrastructure, including AI training clusters, AI inference clusters, hyperscale cloud data centers, and High-Performance Computing (HPC) systems.

Unlike traditional data center optical transceivers that primarily support general-purpose cloud and enterprise networking, AI-focused optical transceivers are optimized for massive east-west traffic generated by GPU-to-GPU, GPU-to-switch, and cluster-to-cluster communications.

In 2025, global AI-focused Optical Transceiver Lens sales volume reached approximately 0.27 million units, with an average price of approximately US\$ 350 per unit

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

Global AI-focused Optical Transceiver 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 AI-focused Optical Transceiver 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 AI-focused Optical Transceiver 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 AI-focused Optical Transceiver

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 AI-focused Optical Transceiver 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 Coherent, InnoLight Technology, Eoptolink Technology, Accelink Technologies, Cisco Systems, Lumentum Holdings, Applied Optoelectronics, Broadcom Inc., Marvell Technology, Inc., Intel Silicon Photonics, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

AI-focused Optical Transceiver 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

400G

800G

1.6T

Others

Market segment by Product

Coherent Optical Transceivers

Silicon Photonics Transceiver

Other

Market segment by Application

AI Storage Networks

Telecom AI Computing Centers

Hyperscale Cloud Data Centers

Other

Major players covered

Coherent

InnoLight Technology

Eoptolink Technology

Accelink Technologies

Cisco Systems

Lumentum Holdings

Applied Optoelectronics

Broadcom Inc.

Marvell Technology, Inc.

Intel Silicon Photonics

Jabil Inc.

Fabrinet

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 AI-focused Optical Transceiver product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AI-focused Optical Transceiver 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 AI-focused Optical Transceiver 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 AI-focused Optical Transceiver.

Chapter 14 and 15, to describe AI-focused Optical Transceiver sales channel, distributors, customers, research findings and conclusion.

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