

Global AI-focused Optical Transceiver Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI-focused Optical Transceiver market size is expected to reach \$ 683 million by 2032, rising at a market growth of 23.1% CAGR during the forecast period (2026-2032).

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 studies the global AI-focused Optical Transceiver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-focused Optical Transceiver 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 AI-focused Optical Transceiver that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI-focused Optical Transceiver total production and demand, 2021-2032, (K Units)

Global AI-focused Optical Transceiver total production value, 2021-2032, (USD Million)

Global AI-focused Optical Transceiver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI-focused Optical Transceiver consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI-focused Optical Transceiver domestic production, consumption, key domestic manufacturers and share

Global AI-focused Optical Transceiver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI-focused Optical Transceiver production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI-focused Optical Transceiver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI-focused Optical Transceiver 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI-focused Optical Transceiver 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 AI-focused Optical Transceiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-focused Optical Transceiver Market, Segmentation by Type:

400G

800G

1.6T

Others

Global AI-focused Optical Transceiver Market, Segmentation by Product:

Coherent Optical Transceivers

Silicon Photonics Transceiver

Other

Global AI-focused Optical Transceiver Market, Segmentation by Application:

AI Storage Networks

Telecom AI Computing Centers

Hyperscale Cloud Data Centers

Other

Companies Profiled:

Coherent

InnoLight Technology

Eoptolink Technology

Accelink Technologies

Cisco Systems

Lumentum Holdings

Applied Optoelectronics

Broadcom Inc.

Marvell Technology, Inc.

Intel Silicon Photonics

Jabil Inc.

Fabrinet

Key Questions Answered:

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

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