

# Global Optical I/O Chip Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Optical I/O Chip market size is expected to reach \$ 11241 million by 2032, rising at a market growth of 42.5% CAGR during the forecast period (2026-2032).

In 2025, global Optical I/O Chip production reached approximately 4.14 million units, with an average global market price of around US\$220 per unit.

The gross profit margin of major companies in the industry is between 35% – 60%.

In 2025, the global production capacity of optical I/O chip was approximately 5.52 million units.

Optical I/O Chip is a high-speed chip or chiplet used to transmit data through optical signals between processors, accelerators, memory, switches, and data center systems. It is mainly used to reduce power consumption, improve bandwidth, and support high-density AI computing interconnects.

The industrial chain covers upstream silicon photonics wafers, lasers, photodiodes, modulators, drivers, packaging materials, and testing equipment; midstream chip design, wafer fabrication, optical coupling, packaging, and validation; downstream AI servers, data centers, switches, HPC systems, and advanced computing platforms.

This report studies the global Optical I/O Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Optical I/O Chip 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 Optical I/O Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Optical I/O Chip total production and demand, 2021-2032, (Million Units)

Global Optical I/O Chip total production value, 2021-2032, (USD Million)

Global Optical I/O Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Optical I/O Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Optical I/O Chip domestic production, consumption, key domestic manufacturers and share

Global Optical I/O Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Optical I/O Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Optical I/O Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Optical I/O Chip 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, Intel, Marvell Technology, Ayar Labs, Ranovus, Lightmatter, Celestial AI, POET Technologies, Lumentum, Coherent, 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 Optical I/O Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Optical I/O Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Optical I/O Chip Market, Segmentation by Type:

Discrete Optical I/O Chip

Co-packaged Optical I/O Chip

Monolithic Integrated Optical I/O Chip

### Global Optical I/O Chip Market, Segmentation by Interface Function:

Optical Transmitter I/O Chip

Optical Receiver I/O Chip

Optical Transceiver I/O Chip

### Global Optical I/O Chip Market, Segmentation by Data Rate:

Low-speed Optical I/O Chip (?100 Gbps)

Medium-speed Optical I/O Chip (?100–400 Gbps)

High-speed Optical I/O Chip (?400 Gbps)

Global Optical I/O Chip Market, Segmentation by Application:

AI Data Center Interconnect

High-performance Computing Cluster

Telecom Optical Transport

Others

Companies Profiled:

Broadcom

Intel

Marvell Technology

Ayar Labs

Ranovus

Lightmatter

Celestial AI

POET Technologies

Lumentum

Coherent

Huawei HiSilicon

Accelink Technologies

Innolight Technology

Source Photonics

Eoptolink Technology

Key Questions Answered:

1. How big is the global Optical I/O Chip market?
2. What is the demand of the global Optical I/O Chip market?
3. What is the year over year growth of the global Optical I/O Chip market?
4. What is the production and production value of the global Optical I/O Chip market?
5. Who are the key producers in the global Optical I/O Chip market?
6. What are the growth factors driving the market demand?

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