

Global AIDC Pluggable Optical Module Market Growth 2026-2032

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Abstracts

The global AIDC Pluggable Optical Module market size is predicted to grow from US\$ 19165 million in 2025 to US\$ 32122 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

In 2025, global AI Data Center Pluggable Optical Module production is estimated to reach 28.6 million units, with an average price of approximately US\$685 per unit. Among them, 800G optical modules have become one of the mainstream products, while 1.6T optical modules have started to enter large-scale deployment. An AIDC pluggable optical module is an optoelectronic conversion module designed for high-speed network interconnects in AI data centers. It utilizes a pluggable form factor and is primarily used for high-speed data transmission between GPU servers, AI accelerator cards, switches, routers, and storage devices. By converting electrical signals into optical signals and enabling low-latency, high-bandwidth, and long-distance transmission over fiber optics, these modules support the requirements of AI training, inference, distributed computing, and high-performance cluster interconnects. Common data rates include 100G, 200G, 400G, 800G, and future 1.6T speeds, while form factors include QSFP28, QSFP-DD, OSFP, and SFP-DD. Compared to standard data center optical modules, AIDC optical modules place greater emphasis on high bandwidth density, low power consumption, low bit error rates, high reliability, and superior thermal performance; they are widely deployed in AI server clusters, intelligent computing centers, hyperscale cloud data centers, and high-performance computing networks.

The global market for AIDC pluggable optical modules is experiencing rapid growth. North America maintains the highest demand, driven by hyperscale cloud providers and the construction of AI training clusters. The Asia-Pacific region—fueled by the expansion of intelligent computing centers in China, Japan, South Korea, and Southeast Asia—has

emerged as the fastest-growing region for both manufacturing and consumption, while Europe focuses increasingly on energy-efficient networking, data sovereignty, and the development of green data centers. Market demand is currently shifting rapidly from 400G to 800G and evolving toward 1.6T; the need for low-latency, high-bandwidth, and low-power interconnects within AI clusters is surging, driving up both shipment volumes and the total value of high-speed optical modules. Data from LightCounting indicates that sales of Ethernet optical transceivers are set to double in 2024 and grow by approximately another 70% in 2025, with 800G and 1.6T modules serving as the primary drivers of this growth. Future trends will center on the mass adoption of 800G, the introduction of 1.6T, and advancements in silicon photonics, thin-film lithium niobate, CPO/NPO, low-power DSPs, and liquid-cooling-compatible packaging. Key challenges include supply constraints for high-end lasers and DSPs, stringent requirements for yield rates and thermal management, downward pressure on prices, lengthy customer certification cycles, rapid technological iteration, and geopolitical trade restrictions. Overall, the industry's average gross margin typically ranges from 25% to 40%; margins for mature 400G products face pressure, whereas high-end 800G/1.6T products and customized AI cluster solutions command relatively higher margins.

LP Information, Inc. (LPI) ' newest research report, the "AIDC Pluggable Optical Module Industry Forecast" looks at past sales and reviews total world AIDC Pluggable Optical Module sales in 2025, providing a comprehensive analysis by region and market sector of projected AIDC Pluggable Optical Module sales for 2026 through 2032. With AIDC Pluggable Optical Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AIDC Pluggable Optical Module industry.

This Insight Report provides a comprehensive analysis of the global AIDC Pluggable Optical Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AIDC Pluggable Optical Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AIDC Pluggable Optical Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AIDC Pluggable Optical Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-

up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AIDC Pluggable Optical Module.

This report presents a comprehensive overview, market shares, and growth opportunities of AIDC Pluggable Optical Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

QSFP-DD Optical Module

OSFP Optical Module

OSFP-XD Optical Module

CFP/CFP2 Optical Module

QSFP112 Optical Module

Segmentation by Transmission Rate:

400G Optical Module

800G Optical Module

1.6T Optical Module

Above 1.6T Optical Module

Segmentation by Application:

AI Training Cluster

AI Inference Cluster

Hyperscale Data Center

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Coherent Corp

Lumentum Holdings

Broadcom

InnoLight Technology Corporation

Eoptolink Technology

Accelink Technologies

Source Photonics Holdings (Cayman) Limited

Applied Optoelectronics

Sumitomo Electric

Fujitsu Optical Components Limited

Nokia Corporation

Ciena Corporation

Marvell Technology

Cisco - Acacia

Huawei

Key Questions Addressed in this Report

What is the 10-year outlook for the global AIDC Pluggable Optical Module market?

What factors are driving AIDC Pluggable Optical Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AIDC Pluggable Optical Module market opportunities vary by end market size?

How does AIDC Pluggable Optical Module break out by Type, by Application?

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