

Global AIDC Pluggable Optical Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AIDC Pluggable Optical Module market size is expected to reach \$ 32946 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global AIDC Pluggable Optical Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AIDC Pluggable Optical Module 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 AIDC Pluggable Optical Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AIDC Pluggable Optical Module total production and demand, 2021-2032, (Units)

Global AIDC Pluggable Optical Module total production value, 2021-2032, (USD Million)

Global AIDC Pluggable Optical Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global AIDC Pluggable Optical Module consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: AIDC Pluggable Optical Module domestic production, consumption, key domestic manufacturers and share

Global AIDC Pluggable Optical Module production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (Units)

Global AIDC Pluggable Optical Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global AIDC Pluggable Optical Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global AIDC Pluggable Optical Module 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 Corp, Lumentum Holdings, Broadcom, InnoLight Technology Corporation, Eoptolink Technology, Accelink Technologies, Source Photonics Holdings (Cayman) Limited, Applied Optoelectronics, Sumitomo Electric, Fujitsu Optical Components Limited, 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 AIDC Pluggable Optical Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 AIDC Pluggable Optical Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AIDC Pluggable Optical Module Market, Segmentation by Type:

QSFP-DD Optical Module

OSFP Optical Module

OSFP-XD Optical Module

CFP/CFP2 Optical Module

QSFP112 Optical Module

Global AIDC Pluggable Optical Module Market, Segmentation by Transmission Rate:

400G Optical Module

800G Optical Module

1.6T Optical Module

Above 1.6T Optical Module

Global AIDC Pluggable Optical Module Market, Segmentation by Application:

AI Training Cluster

AI Inference Cluster

Hyperscale Data Center

Others

Companies Profiled:

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 Answered:

1. How big is the global AIDC Pluggable Optical Module market?

2. What is the demand of the global AIDC Pluggable Optical Module market?
3. What is the year over year growth of the global AIDC Pluggable Optical Module market?
4. What is the production and production value of the global AIDC Pluggable Optical Module market?
5. Who are the key producers in the global AIDC Pluggable Optical Module market?
6. What are the growth factors driving the market demand?

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