

Optical Amplifier Market Expected to Reach \$1.8 Billion by 2031

The North America region accounted for the largest share of the optical amplifier market in 2021, and is also anticipated to grow faster during forecast period.

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The optical amplifier market was valued at \$916.37 million in 2021, and is estimated to reach \$1.8 billion by 2031, growing at a CAGR of 6.9% from 2022 to 2031.”

Allied Market Research

[Market](#) Size, Share, Competitive Landscape and Trend Analysis Report by Type (Semiconductor [Optical Amplifier](#), Fiber Amplifier, Others), by Function (Booster Amplifier, In-line Amplifier, Pre-Amplifier), by Industry Vertical (IT and Telecommunication, Industrial, Government and Defense, Healthcare and Life Sciences, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031. The global optical amplifier market was valued at \$916.4 million in 2021, and is projected to reach \$1.8 billion by 2031, growing at a CAGR of 6.9% from 2022 to 2031.

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Optical amplifiers amplify light without converting it to an electrical signal and is an extremely important device that supports long-distance optical communication networks. The transmission loss of light passing through an optical fiber cable cannot be ignored when the distances are long, and hence, it becomes necessary to amplify the light using an optical amplifier.

One of the driving factors of the optical amplifier market size is the development of data centers. The increase in the use of cloud services, and the growth of e-commerce, and big data analytics have led to an increase in demand for data centers because these trends have resulted in an exponential increase in the amount of data that needs to be processed and stored. Optical amplifiers play a crucial role in the communication system of the data center, as they help to boost the signal strength and stop it from becoming indistinguishable. Another driving factor of the market is the rising deployment of smart cities and smart homes. The deployment of smart cities involves the use of various technologies such as Internet of Things (IoT) sensors, traffic management systems, and security cameras, which all require high-speed and reliable data transmission.

The optical amplifier market has witnessed mixed impact of the outbreak of the COVID-19 pandemic. With governments of several nations imposing and extending lockdowns, production and manufacturing facilities across the globe have been shut down, leading to crisis and unavailability of workforce. Considering the inputs from various industry experts belonging to various stages of the value chain, such as OEMs, suppliers, integrators, end users, and distributors, and the financial release of various companies in the optical amplifier ecosystem, it is calculated that the market has experienced a decline during 2019–2020. Furthermore, the outbreak of the pandemic has disrupted the global supply chain, thereby creating significant gap in supply chain. Economic impact of the pandemic has been disruptive. Key players operating in the optical amplifier industry temporarily witnessed a slowdown, owing to lack of availability of raw materials, which has led to decline in revenues for the financial year 2020 to 2021. However, it is expected that the market started recovering from 2021 and will remain in the growth stage during the forecast period. The measures taken by the major players in the optical amplifier market to counter the negative effects of covid-19 include making moderate cuts to R&D budgets and focusing on next-generation products.

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Competitive Analysis:

The optical amplifier industry key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

Some of the major key players of the optical amplifier market include,

□□APE Angewandte Physik und Elektronik GmbH,
□□Lumentum Operations LLC,
□□Sumitomo Electric Industries, Ltd.,
□□EMCOR Group Inc.,
□□Coherent Corporation,
□□Source Photonics Inc.,
□□Furukawa Co. Ltd.,
□□IPG Photonics Corporation,
□□NEC Corporation,
□□Broadcom Inc.

Top Impacting Factors:

The growth of the global optical amplifier market is driven by its usage in data centers and by the increase in the requirement for data centers. More data centers are required now due to the rise in the use of cloud services, e-commerce, and big data analytics. The deployment of smart cities and smart homes is also an important development for the optical amplifier market. The

technologies on which smart cities are built, need to deploy optical amplifiers to ensure proper transmission of large amounts of data. Furthermore, the higher use of bandwidth by companies also drives the optical amplifier market opportunity. However, optical amplifiers are expensive to purchase and install. Their costs are highly affected by various scenarios and circumstances. In addition, the adoption of hyper-converged infrastructure (HCI) is expected to generate new opportunities for the optical amplifier market.

Research Methodology:

The research uses both primary and secondary research to assemble data on the various facets of the international security screening market. Using interviews or surveys, primary market research has been used to collect highly authenticated data from direct sources, such as consumers in a particular market. Secondary market research is a method for gathering information from previously released data that has been produced by international organizations, business groups, government and research institutions, and so on.

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Key Benefits for Stakeholders:

□□This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the optical amplifier market analysis from 2021 to 2031 to identify the prevailing optical amplifier market opportunities.

□□The market research is offered along with information related to key drivers, restraints, and opportunities.

□□Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

□□In-depth analysis of the optical amplifier market segmentation assists to determine the prevailing market opportunities.

□□Major countries in each region are mapped according to their revenue contribution to the global market.

□□Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

□□The report includes the analysis of the regional as well as global optical amplifier market trends, key players, market segments, application areas, and market growth strategies.

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