

## Free Space Optic Communication Market Projected to Skyrocket to \$4.8 Billion by 2031 (31.3% CAGR)

Free space optic communication market was valued at \$347.5 million in 2021, is projected to reach \$4.8 billion by 2031, grow at a CAGR of 31.3% from 2022-2031.

WILMINGTON, NEW CASTLE, DE, UNITED STATES, June 27, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "<u>Free Space Optic</u> <u>Communication Market</u> by Platform (Space, Airborne, Ground), by



Component (Transmitter, Transceiver, Receiver, Others), by Application (Mobile Backhaul, Disaster Recovery, Enterprise Connectivity, Defense, Satellite, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031." The report offers a detailed analysis of the top winning strategies, evolving market trends, market size and estimations, value chain, key

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North America accounted for the largest share of the global free space optic communication market in 2021, and it is also anticipated to grow faster during the forecast period." *Roshan Deshmukh*  investment pockets, drivers & opportunities, competitive landscape and regional landscape. The report is a useful source of information for new entrants, shareholders, frontrunners and shareholders in introducing necessary strategies for the future and taking essential steps to significantly strengthen and heighten their position in the market. The free space optic communication market size was valued at \$347.54 million in 2021, and is estimated to reach \$4.8 billion by 2031, growing at a CAGR of 31.3% from 2022 to 2031.

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Free space optic communication is a wireless technology that uses beams of light to transmit data through the atmosphere. The FSO communication market has been gaining traction in

recent years, driven by the increase in demand for high-speed data transmission and the need for secure communication channels. This technology is ideal for completing data transmission tasks in areas where physical connections are not feasible. Furthermore, FSO communication technology provides inter-satellite communications, satellite-to-ground communication, and a variety of other airborne applications.

The free space optic communication market growth is driven by the increase in demand for highspeed data transmission in military sector. Demand for bandwidth on the battlefield has been increasing significantly since the last two decades, as communication between subordinates and higher commands has shifted from radio and voice to email and chat messages. Furthermore, data-rich multimedia content such as high-definition pictures, video files, video, chat, and PowerPoint briefings are being sent at every level of the chain of command. Military communications need the highest level of broadband security in an extremely dense RF operating environment. Security qualities and bandwidth of FSO make it an attractive technology for military communications.

The free space optic communication market size is segmented into Platform, Component and Application.

Based on platform, the ground segment held the highest market share in 2021, accounting for more than two-fifths of the global free space optic communication market, and is estimated to maintain its leadership status throughout the forecast period. Free space optic technology plays a vital role in establishing communication links between ground platforms, including buildings, towers, and other fixed structures. FSO communication provides high-speed, secure, and reliable communication links between different ground platforms, enabling data transmission, video streaming, and other applications. However, the space segment is projected to manifest the highest CAGR of 32.49% from 2022 to 2031.

Based on component, the transceiver segment held the highest market share in 2021, accounting for nearly half of the global free space optic communication market, and is estimated to maintain its leadership status throughout the forecast period. The performance of the transceiver is critical to the overall performance of the free space optic communication system. Thus, major players are investing heavily in developing advanced transceivers to gain a competitive advantage in the market. However, the receiver segment is projected to manifest the highest CAGR of 32.52% from 2022 to 2031.

Based on region, North America held the highest market share in terms of revenue in 2021, accounting for nearly two-fifths of the global free space optic communication market, and is likely to dominate the market during the forecast period. This region is expected to witness the fastest CAGR of 32.86% from 2022 to 2031. Key players operating in this region have been adopting various strategies to provide advanced solutions, which is expected to fuel market growth. North America offers suitable infrastructure, owing to the availability of prime vendors across the countries such as the U.S. and Canada, resulting in surge in demand for smart

infrastructure solutions in this region.

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The free space optic communication market players profiled in the report include EC System, FSONA Networks Corp., Axiom Optics, Wireless Excellence Limited, QinetiQ, ViaSat, Inc., Mostcom JSC, Mynaric, Collinear and Plaintree Systems Inc. Various strategies such as collaborations & partnerships, product launches, and acquisitions have been adopted by market players to expand their foothold in the digital multimeters market.

## Analyst Review

The free space optic communication market exhibited development potential across different sectors including aerospace, defense and the electronics industry. Furthermore, technological advancements, such as the development of new materials and manufacturing processes, are driving the demand for more precise and free space optic communication.

Free space optic communication market is highly competitive, owing to the strong presence of existing vendors. The free space optic communication market vendors are investing substantially in R&D and skilled workforce and are anticipated to gain a competitive edge over their rivals. The competitive environment in the market is expected to further intensify with an increase in technological innovations, product extensions, and different strategies adopted by key vendors.

## Key Findings of the Study:

Based on platform segmentation of the free space optic communication market share, the ground segment accounted-for major share of the free space optic communication industry in 2021, while the space segment is expected to witness faster growth during the forecast period.
Based on component, the transceiver segment accounted-for higher share of the free space optic communication market in 2021, while the receiver segment is anticipated to increase faster during the forecast period.

Based on application, the mobile backhaul segment dominated the free space optic communication market in 2021, while the defense segment is expected to expand at a faster rate during the forecast period.

Based on region, North America accounted for the largest share of the global free space optic communication market in 2021, and it is also anticipated to grow faster during the forecast period.

Key Benefits For Stakeholders:

□ This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the free space optic communication market analysis from 2021 to

2031 to identify the prevailing free space optic communication market opportunity.

□ 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 free space optic communication market segmentation assists to determine the prevailing market opportunities.

D Major countries in each region are mapped according to their revenue contribution to the global free space optic communication market.

I 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 free space optic communication market trends, key players, market segments, application areas, and free space optic communication industry growth strategies.

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