

# Laser Communication Market to Exceed US\$ 3,644.7 Mn by 2030 – Astute Analytica

CHICAGO, UNITED STATES, January 11, 2023 /EINPresswire.com/ -- [Global laser communication market](#) is forecast to project a major rise in its revenue from US\$ 531.4 Mn in 2021 to US\$ 3,644.7 Mn by 2030. The market is growing at a CAGR of 24.2% during the forecast period from 2022 to 2030.

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Since its creation in the early 1960s, laser communication technology has been a frequently utilized method of communication between humans and machines. The fact that laser communication does not require any hidden cables or broadcast rights is by far its biggest benefit. A laser diode transfers a beam of information to a receiving beam in the process of laser communication. The most crucial requirement for laser communication is an open, unobstructed line of sight. Compared to radio waves, laser transmission has a wider bandwidth.

## Factors Influencing Market Growth

The global laser communication market is primarily growing due to the reasons like the rising need for high-speed, secure wireless communication and the growing requirement for greater flexibility at an affordable price. In the upcoming years, laser communication will become increasingly important in the space industry. These tools, which draw on recent telecom developments, operate in free space and don't require fiber optic lines. In order to increase the amount of data transmitted to Earth and enable further space research, laser communication systems work in tandem with satellites. All these factors increased the need for more flexible communications at lower prices and for secure, high-speed wireless connections.

However, the demand for specific telescope pointers may stymie the overall market growth.

## Segmentation Summary

In 2021, on the basis of the solutions segment, the space-to-space segment dominated the global laser communication industry and will project a lucrative annual growth rate during the forecast period. This is owing to the growing desire for space exploration by nations such as

China, the United States, and Russia.

In 2021, in terms of type segment, the space terminal segment held the maximum share of the global laser communication industry and will grow at the highest rate over the forecast period. In comparison to radio frequency systems, laser communication terminals in space use narrower beam widths, creating smaller "footprints" that can reduce interference or increase security by substantially shrinking the region where a communications link could be intercepted. For many years, lasers have been utilized for communication in space.

In 2021, in terms of the range segment, the short-range laser communications segment accounted for a substantial share of the global laser communication industry. In addition, the segment will record the highest compound annual growth rate over the prediction period. The usage of short-range laser communication systems is growing due to the pressing demand for wireless technology development and expansion. In addition, short-range laser communications systems' high bit transition rate and bandwidth drive segment growth.

In 2021, on the basis of the component segment, the laser component segment recorded the maximum share of the global laser communication industry and is likely to maintain its prominence over the forecast period. In optical fiber communications, laser light helps to transmit information over long distances with little loss. The market for laser components is expanding due to the increasing demand for better wireless communication networks and the quick advancements in laser and optical technologies.

In 2021, on the basis of the application segment, the technology development application projected the leading share in the global laser communication industry. On the other hand, the R&D segment will project the highest rate in the upcoming years. Prominent space agencies like China's National Space Administration, NASA, the European Space Agency, the Russian Federal Space Agency, and the Indian Space Research Organization are heavily investing in laser communication for space exploration and for the wireless transfer of data.

In 2021, on the basis of the end-user segment, the satellite communication segment recorded the highest share in the global laser communication industry as lasers have become increasingly used for satellite communication. Whereas, the government segment will maintain the highest CAGR from 2022 to 2030. This is because government agencies can carry out new policy initiatives and improve monitoring by amassing a lot of data quickly and affordably due to laser communication technologies.

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## Regional Summary

In 2021, North America held the most market share among the other regions in the global laser

communication market, and it will also grow at the highest CAGR. This is a result of the region's ongoing wireless communication research and development efforts in the military, aerospace, and maritime industries. In order to offer low-cost international communications, private corporations are now establishing their own satellite constellations.

### Leading Competitors

Fibertek  
Ball Aerospace and Technologies  
Optical Physics Company  
Mynaric AG  
ODYSSEUS Space  
Atlas Space Operations, Inc.  
TESAT Spacecom  
Thales Alenia Space  
Hyperion Technologies  
BridgeComm, Inc.  
Other Prominent Players

### Segmentation Outline

The global laser communication market segmentation focuses on Type, Solution, Range, Component, Application, End-Users, and Region.

#### By Type Segment

Ground Terminal  
Airborne Terminal  
Space Terminal

#### By Solution Segment

Space-to-space  
Space-to-ground station

#### By Range Segment

Short Range  
Medium Range  
Long Range

#### By Component Segment

Transmitter  
Receiver  
Laser  
Modulator

Demodulator

Others

By Application Segment

Technology development

Earth observation & Remote sensing

Communication

Surveillance and Security

Research and exploration

Others

By End-Users Segment

Satellite Communications

Transportation

Military

Civil

Government

Financial Services

Others

By Region Segment

North America

- o The U.S.

- o Canada

- o Mexico

Europe

Western Europe

- The UK

- Germany

- France

- Italy

- Spain

Rest of Western Europe

Eastern Europe

- Poland

- Russia

Rest of Eastern Europe

Asia Pacific

China

India

Japan

Australia & New Zealand  
ASEAN  
Rest of Asia Pacific

Middle East & Africa (MEA)  
UAE  
Saudi Arabia  
South Africa  
Rest of MEA

South America  
Argentina  
Brazil  
Rest of South America

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