

Global Optical Satellite Communication Market Size study & Forecast, by Component (Transmitters, Receivers, Other) by Application (Telecommunication, Surveillance and Security, Earth Observation, Tracking and Monitoring, Research and Space Exploration, Others) and Regional Analysis, 2022-2029

<https://marketpublishers.com/r/GFF4FEDAF9C4EN.html>

Date: May 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GFF4FEDAF9C4EN

Abstracts

Global Optical Satellite Communication Market is valued at approximately USD 7.52 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 21.30% over the forecast period 2022-2029. Optical satellite communication, also known as free-space optical communication (FSOC), is a method of communication that uses laser beams to transmit information through space, typically between satellites or from satellites to ground-based receivers. This technology leverages the properties of light, such as its high bandwidth, narrow beam divergence, and low interference, to enable high-speed and high-capacity data transmission in space. The Optical Satellite Communication market is expanding because of factors such as a rise in demand for multimedia services and increase in number of Mobile Phone Users.

Optical satellite communication offers several advantages over traditional radio frequency (RF) communication methods, such as radio waves and microwaves. Its importance has progressively increased during the last few decades. According to the Statista, in 2021, the value of the media and entertainment business reached USD 2.34 trillion and expected to reach USD 2.93 trillion by the end of 2026. Furthermore, in 2022, 'Digital video content was selected by 87% of respondents in a survey conducted on 'Most used media services' in the United States. Another important component driving space increase is the number of Mobile Phone Users. As per Statista, the global number of smartphone mobile network subscriptions reached over 6.6 billion in 2022

and is expected to exceed 7.8 billion by 2028. Furthermore, the countries holding the most smartphone mobile network subscriptions were China, India, and the United States. In addition, in 2021, the United States accounts most significant smartphone penetration rates with 82.2% population around the world. Also, increasing spending in space missions and rising technological advancement in Optical Satellite Communication would create a lucrative growth prospectus for the market over the forecast period. However, the high cost of Optical Satellite Communication stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Optical Satellite Communication Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America dominated the market in terms of revenue, owing to the growth in the telecommunication sector and high adoption of advanced technologies within the region. According to the Statista, in April 2022, the United States accounts for about 3,433 operational artificial satellites out of the 5,465 active artificial satellites around the Earth orbit. Furthermore, Asia Pacific is expected to grow with a highest CAGR during the forecast period, owing to factors such as in the usage of mobile phones and a rise in the number of digital satellite broadcasting in the market space.

Major market player included in this report are:

Analytical Space, Inc. (US)
ATLAS Space Operations, Inc. (US),
National Aeronautics and Space Administration (US),
BridgeSat Inc. (US),
Maxar Technologies (US),
Mitsubishi Electric Corporation (Japan),
SITAEL S.p.A. (Japan),
Ball Aerospace & Technologies (US),
Laser Light Communications (US)
Hisdesat Servicios Estrat?gicos, S.A.

Recent Developments in the Market:

In June 2022, Mitsubishi Electric Corp launched an optical receiver prototype for laser communication terminals. The prototype is the very first to incorporate space optical communication utilizing laser beams as well as a capability to determine the location of incoming rays in the 1.5-m band, which is a general-purpose band utilized for terrestrial optical fiber communications.

Global Optical Satellite Communication Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Component, Application, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component

Transmitters

Receivers

Other

By Application

Telecommunication

Surveillance and Security,

Earth Observation,

Tracking and Monitoring,

Research and Space Exploration

Others

By Region:

North America

U.S.

Canada

Europe

UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
RoLA
Rest of the World

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2019-2029 (USD Billion)
 - 1.2.1. Optical Satellite Communication Market, by Region, 2019-2029 (USD Billion)
 - 1.2.2. Optical Satellite Communication Market, by Component, 2019-2029 (USD Billion)
 - 1.2.3. Optical Satellite Communication Market, by Application, 2019-2029 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL OPTICAL SATELLITE COMMUNICATION MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Scope of the Study
 - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL MARKET DYNAMICS

- 3.1. Optical Satellite Communication Market Impact Analysis (2019-2029)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rise in demand for multimedia services
 - 3.1.1.2. Increase in number of Mobile Phone Users
 - 3.1.2. Market Challenges
 - 3.1.2.1. High Cost of Optical Satellite Communication
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Increasing spending in space missions
 - 3.1.3.2. Rising technological advancement in Optical Satellite Communication

CHAPTER 4. GLOBAL OPTICAL SATELLITE COMMUNICATION MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Futuristic Approach to Porter's 5 Force Model (2019-2029)
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. Industry Experts Prospective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT

- 5.1. Assessment of the overall impact of COVID-19 on the industry
- 5.2. Pre COVID-19 and post COVID-19 Market scenario

CHAPTER 6. GLOBAL OPTICAL SATELLITE COMMUNICATION MARKET, BY COMPONENT

- 6.1. Market Snapshot
- 6.2. Global Optical Satellite Communication Market by Component, Performance - Potential Analysis
- 6.3. Global Optical Satellite Communication Market Estimates & Forecasts by Component 2019-2029 (USD Billion)
- 6.4. Optical Satellite Communication Market, Sub Segment Analysis
 - 6.4.1. Transmitters
 - 6.4.2. Receivers
 - 6.4.3. Other

CHAPTER 7. GLOBAL OPTICAL SATELLITE COMMUNICATION MARKET, BY APPLICATION

- 7.1. Market Snapshot

- 7.2. Global Optical Satellite Communication Market by Application, Performance - Potential Analysis
- 7.3. Global Optical Satellite Communication Market Estimates & Forecasts by Application 2019-2029 (USD Billion)
- 7.4. Optical Satellite Communication Market, Sub Segment Analysis
 - 7.4.1. Telecommunication
 - 7.4.2. Surveillance and Security
 - 7.4.3. Earth Observation
 - 7.4.4. Tracking and Monitoring
 - 7.4.5. Research and Space Exploration
 - 7.4.6. Others

CHAPTER 8. GLOBAL OPTICAL SATELLITE COMMUNICATION MARKET, REGIONAL ANALYSIS

- 8.1. Optical Satellite Communication Market, Regional Market Snapshot
- 8.2. North America Optical Satellite Communication Market
 - 8.2.1. U.S. Optical Satellite Communication Market
 - 8.2.1.1. Component breakdown estimates & forecasts, 2019-2029
 - 8.2.1.2. Application breakdown estimates & forecasts, 2019-2029
 - 8.2.2. Canada Optical Satellite Communication Market
- 8.3. Europe Optical Satellite Communication Market Snapshot
 - 8.3.1. U.K. Optical Satellite Communication Market
 - 8.3.2. Germany Optical Satellite Communication Market
 - 8.3.3. France Optical Satellite Communication Market
 - 8.3.4. Spain Optical Satellite Communication Market
 - 8.3.5. Italy Optical Satellite Communication Market
 - 8.3.6. Rest of Europe Optical Satellite Communication Market
- 8.4. Asia-Pacific Optical Satellite Communication Market Snapshot
 - 8.4.1. China Optical Satellite Communication Market
 - 8.4.2. India Optical Satellite Communication Market
 - 8.4.3. Japan Optical Satellite Communication Market
 - 8.4.4. Australia Optical Satellite Communication Market
 - 8.4.5. South Korea Optical Satellite Communication Market
 - 8.4.6. Rest of Asia Pacific Optical Satellite Communication Market
- 8.5. Latin America Optical Satellite Communication Market Snapshot
 - 8.5.1. Brazil Optical Satellite Communication Market
 - 8.5.2. Mexico Optical Satellite Communication Market
 - 8.5.3. Rest of Latin America Optical Satellite Communication Market

8.6. Rest of The World Optical Satellite Communication Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

9.1. Top Market Strategies

9.2. Company Profiles

9.2.1. Analytical Space, Inc. (US)

9.2.1.1. Key Information

9.2.1.2. Overview

9.2.1.3. Financial (Subject to Data Availability)

9.2.1.4. Product Summary

9.2.1.5. Recent Developments

9.2.2. ATLAS Space Operations, Inc. (US),

9.2.3. National Aeronautics and Space Administration (US),

9.2.4. BridgeSat Inc. (US),

9.2.5. Maxar Technologies (US),

9.2.6. Mitsubishi Electric Corporation (Japan),

9.2.7. SITAEL S.p.A. (Japan),

9.2.8. Ball Aerospace & Technologies (US),

9.2.9. Laser Light Communications (US)

9.2.10. Hisdesat Servicios Estrat?gicos, S.A.

CHAPTER 10. RESEARCH PROCESS

10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

10.2. Research Attributes

10.3. Research Assumption

List Of Tables

LIST OF TABLES

- TABLE 1. Global Optical Satellite Communication Market, report scope
- TABLE 2. Global Optical Satellite Communication Market estimates & forecasts by Region 2019-2029 (USD Billion)
- TABLE 3. Global Optical Satellite Communication Market estimates & forecasts by Component 2019-2029 (USD Billion)
- TABLE 4. Global Optical Satellite Communication Market estimates & forecasts by Application 2019-2029 (USD Billion)
- TABLE 5. Global Optical Satellite Communication Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 6. Global Optical Satellite Communication Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 7. Global Optical Satellite Communication Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 8. Global Optical Satellite Communication Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 9. Global Optical Satellite Communication Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 10. Global Optical Satellite Communication Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 11. Global Optical Satellite Communication Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 12. Global Optical Satellite Communication Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 13. Global Optical Satellite Communication Market by segment, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 14. Global Optical Satellite Communication Market by region, estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 15. U.S. Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)
- TABLE 16. U.S. Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)
- TABLE 17. U.S. Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)
- TABLE 18. Canada Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 19. Canada Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 20. Canada Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 21. UK Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 22. UK Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 23. UK Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 24. Germany Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 25. Germany Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 26. Germany Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 27. France Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 28. France Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 29. France Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 30. Italy Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 31. Italy Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 32. Italy Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 33. Spain Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 34. Spain Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 35. Spain Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 36. RoE Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 37. RoE Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 38. RoE Optical Satellite Communication Market estimates & forecasts by

segment 2019-2029 (USD Billion)

TABLE 39. China Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 40. China Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 41. China Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 42. India Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 43. India Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 44. India Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 45. Japan Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 46. Japan Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 47. Japan Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 48. South Korea Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 49. South Korea Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 50. South Korea Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 51. Australia Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 52. Australia Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 53. Australia Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 54. RoAPAC Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 55. RoAPAC Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 56. RoAPAC Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 57. Brazil Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 58. Brazil Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 59. Brazil Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 60. Mexico Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 61. Mexico Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 62. Mexico Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 63. RoLA Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 64. RoLA Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 65. RoLA Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 66. Row Optical Satellite Communication Market estimates & forecasts, 2019-2029 (USD Billion)

TABLE 67. Row Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 68. Row Optical Satellite Communication Market estimates & forecasts by segment 2019-2029 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Optical Satellite Communication Market

TABLE 70. List of primary sources, used in the study of global Optical Satellite Communication Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Optical Satellite Communication Market, research methodology
- FIG 2. Global Optical Satellite Communication Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Optical Satellite Communication Market, key trends 2021
- FIG 5. Global Optical Satellite Communication Market, growth prospects 2022-2029
- FIG 6. Global Optical Satellite Communication Market, porters 5 force model
- FIG 7. Global Optical Satellite Communication Market, pest analysis
- FIG 8. Global Optical Satellite Communication Market, value chain analysis
- FIG 9. Global Optical Satellite Communication Market by segment, 2019 & 2029 (USD Billion)
- FIG 10. Global Optical Satellite Communication Market by segment, 2019 & 2029 (USD Billion)
- FIG 11. Global Optical Satellite Communication Market by segment, 2019 & 2029 (USD Billion)
- FIG 12. Global Optical Satellite Communication Market by segment, 2019 & 2029 (USD Billion)
- FIG 13. Global Optical Satellite Communication Market by segment, 2019 & 2029 (USD Billion)
- FIG 14. Global Optical Satellite Communication Market, regional snapshot 2019 & 2029
- FIG 15. North America Optical Satellite Communication Market 2019 & 2029 (USD Billion)
- FIG 16. Europe Optical Satellite Communication Market 2019 & 2029 (USD Billion)
- FIG 17. Asia pacific Optical Satellite Communication Market 2019 & 2029 (USD Billion)
- FIG 18. Latin America Optical Satellite Communication Market 2019 & 2029 (USD Billion)
- FIG 19. Global Optical Satellite Communication Market, company Market share analysis (2021)

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

I would like to order

Product name: Global Optical Satellite Communication Market Size study & Forecast, by Component (Transmitters, Receivers, Other) by Application (Telecommunication, Surveillance and Security, Earth Observation, Tracking and Monitoring, Research and Space Exploration, Others) and Regional Analysis, 2022-2029

Product link: <https://marketpublishers.com/r/GFF4FEDAF9C4EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GFF4FEDAF9C4EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970