

Space-Based Communication Market Forecasts to 2034 – Global Analysis By Communication Type (Satellite Broadband, Satellite Voice, Satellite Data, Satellite Broadcasting and Other Communication Types), Frequency Band, Orbit, Application, End User and Geography

<https://marketpublishers.com/r/SF8B134F5917EN.html>

Date: July 2026

Pages: 0

Price: US\$ 4,150.00 (Single User License)

ID: SF8B134F5917EN

Abstracts

According to Statistics MRC, the Global Space-Based Communication Market is accounted for \$14.5 billion in 2026 and is expected to reach \$42.8 billion by 2034 growing at a CAGR of 14.5% during the forecast period. Space-based communication refers to the transmission of voice, data, video, and other digital information through satellites operating in Earth orbit. These communication systems provide reliable connectivity for aviation, maritime, defense, emergency response, broadcasting, remote sensing, and global telecommunications applications. Space-based communication enables long-distance, high-capacity, and resilient communication in regions where terrestrial infrastructure is limited or unavailable. Advances in low Earth orbit (LEO) satellite constellations, high-throughput satellites, and digital payload technologies are improving communication speed and coverage. Growing demand for global connectivity is driving investment in space-based communication systems worldwide.

Market Dynamics:

Driver:

Rising demand for global connectivity

Satellite communication systems provide coverage where terrestrial networks cannot

reach, ensuring seamless access for enterprises, governments, and consumers. Airlines, shipping companies, and defense organizations rely on global connectivity to improve operational efficiency and safety. Vendors are investing in low-Earth orbit constellations to deliver faster, low-latency services worldwide. Governments are prioritizing connectivity as part of national digital transformation strategies. Academic institutions are researching advanced modulation and antenna technologies to enhance performance. As demand intensifies, space-based communication is becoming a critical enabler of global infrastructure.

Restraint:

Limited spectrum availability

With increasing demand, competition for frequency bands is intensifying among telecom operators, satellite providers, and defense agencies. Enterprises face difficulties in securing licenses and maintaining service quality. Smaller firms struggle to compete with established players in spectrum allocation, limiting their market participation. Governments are working to optimize spectrum usage, but progress remains slow and fragmented across jurisdictions. Vendors are exploring advanced compression and frequency-sharing technologies to mitigate limitations.

Opportunity:

Direct-to-device satellite services

Direct-to-device satellite services allow smartphones and IoT devices to connect directly to satellites without requiring ground-based infrastructure. Enterprises benefit from enhanced mobility and resilience in communication, particularly in disaster-prone or rural areas. Governments are supporting initiatives to expand coverage and strengthen digital inclusion. Vendors are developing constellations tailored for consumer and enterprise devices, focusing on affordability and scalability. Academic institutions are researching antenna miniaturization and power efficiency to support direct connectivity.

Threat:

Space debris collision risks

Collisions can damage satellites, disrupt services, and increase operational costs for enterprises. Governments are tightening regulations to ensure safe satellite deployment

and orbital management. Vendors are investing in collision-avoidance technologies and resilient satellite designs to mitigate risks. Academic institutions are researching debris-tracking systems and predictive models to improve safety. Despite these efforts, the growing density of satellites in orbit continues to heighten risks. Space debris remains a persistent challenge that could slow adoption if not addressed effectively.

Covid-19 Impact:

The Covid-19 pandemic initially slowed satellite launches and disrupted supply chains. Airlines and enterprises delayed investments in communication upgrades due to financial strain. However, the crisis highlighted the importance of resilient connectivity for remote work, healthcare, and education. Governments included satellite communication in recovery strategies to strengthen digital infrastructure. Vendors leveraged the opportunity to expand into consumer broadband and mission-critical services. Academic institutions accelerated research into low-cost satellite technologies. Overall, Covid-19 acted as a catalyst, boosting long-term interest in space-based communication.

The satellite broadband segment is expected to be the largest during the forecast period

The satellite broadband segment is expected to account for the largest market share during the forecast period as rising demand for global connectivity across underserved and remote regions. Broadband via satellite ensures reliable access where terrestrial networks are limited or absent. Enterprises benefit from improved communication infrastructure that supports business continuity. Governments are funding broadband initiatives to bridge the digital divide. Vendors are investing in high-throughput satellites to deliver faster speeds and lower latency. Academic institutions are researching advanced modulation techniques to enhance efficiency.

The mission communications segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the mission communications segment is predicted to witness the highest growth rate due to increasing reliance on secure and resilient communication for defense and emergency operations. Mission-critical systems require uninterrupted connectivity, even in hostile or remote environments. Enterprises benefit from enhanced situational awareness and operational efficiency. Governments are prioritizing investments in mission communication platforms to strengthen national security. Vendors are developing advanced encryption and AI-powered monitoring tools

to support these systems. Awareness campaigns highlight the importance of mission communications in disaster response.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to strong investment in satellite infrastructure and early adoption of advanced communication technologies. The US and Canada benefit from robust aerospace industries and defense-driven demand. Enterprises are increasingly deploying satellite broadband and mission communication systems. Governments are supporting modernization through funding and favorable regulatory frameworks. Vendors headquartered in North America are leading innovation in satellite constellations. Academic institutions contribute by researching next-generation communication protocols.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by rapid expansion of aviation and telecom sectors requiring satellite-based communication. Countries such as China, India, Japan, and South Korea are investing heavily in satellite constellations and ground infrastructure. Affordable solutions are gaining traction among mid-sized enterprises, expanding adoption. Governments are supporting digital transformation through subsidies and regulatory reforms. Vendors are collaborating with regional operators to deliver tailored services. Younger demographics are increasingly reliant on digital-first connectivity.

Key players in the market

Some of the key players in Space-Based Communication Market include Viasat, Inc., Iridium Communications Inc., SES S.A., Eutelsat Communications S.A., Intelsat S.A., Inmarsat Global Limited, Airbus SE, The Boeing Company, L3Harris Technologies, Inc., Honeywell International Inc., Thales S.A., Lockheed Martin Corporation, Northrop Grumman Corporation, RTX Corporation and Space Exploration Technologies Corp.

Key Developments:

In April 2026, Viasat successfully launched its ViaSat-3 F3 satellite, designed to deliver over 1 Terabit per second (Tbps) of throughput capacity to significantly scale flexible, high-speed broadband across the Asia-Pacific region. Concurrently, the U.S. Space

Force awarded Viasat a critical delivery order under the Protected Tactical SATCOM-Global (PTS-G) program to move its mini-GEO dual X/Ka-band anti-jam military communication satellites into production.

In March 2026, Boeing completed production on an advanced software-defined protected payload system destined for the U.S. military's Wideband Global SATCOM (WGS) constellation. The digital processor allows operators to shape, steer, and hop narrow sub-channels dynamically to isolate and bypass ground-based adversarial jamming signals.

Communication Types Covered:

Satellite Broadband

Satellite Voice

Satellite Data

Satellite Broadcasting

Other Communication Types

Frequency Bands Covered:

L-Band

S-Band

C-Band

Ku/Ka-Band

Other Frequency Bands

Orbit Types Covered:

Low Earth Orbit

Medium Earth Orbit

Geostationary Orbit

Highly Elliptical Orbit

Other Orbit Types

Applications Covered:

Broadband Connectivity

Remote Communications

Disaster Recovery

Mission Communications

Other Applications

End Users Covered:

Telecommunications

Government & Defense

Maritime

Aviation

Other End Users

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

Space-Based Communication Market Forecasts to 2034 – Global Analysis By Communication Type (Satellite Broadban...

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL SPACE-BASED COMMUNICATION MARKET, BY COMMUNICATION TYPE

- 5.1 Satellite Broadband
- 5.2 Satellite Voice
- 5.3 Satellite Data
- 5.4 Satellite Broadcasting
- 5.5 Other Communication Types

6 GLOBAL SPACE-BASED COMMUNICATION MARKET, BY FREQUENCY BAND

- 6.1 L-Band
- 6.2 S-Band
- 6.3 C-Band
- 6.4 Ku/Ka-Band
- 6.5 Other Frequency Bands

7 GLOBAL SPACE-BASED COMMUNICATION MARKET, BY ORBIT

- 7.1 Low Earth Orbit
- 7.2 Medium Earth Orbit
- 7.3 Geostationary Orbit
- 7.4 Highly Elliptical Orbit
- 7.5 Other Orbit Types

8 GLOBAL SPACE-BASED COMMUNICATION MARKET, BY APPLICATION

- 8.1 Broadband Connectivity
- 8.2 Remote Communications
- 8.3 Disaster Recovery
- 8.4 Mission Communications
- 8.5 Other Applications

9 GLOBAL SPACE-BASED COMMUNICATION MARKET, BY END USER

- 9.1 Telecommunications
- 9.2 Government & Defense
- 9.3 Maritime
- 9.4 Aviation
- 9.5 Other End Users

10 GLOBAL SPACE-BASED COMMUNICATION MARKET, BY GEOGRAPHY

- 10.1 North America
 - 10.1.1 United States
 - 10.1.2 Canada
 - 10.1.3 Mexico
- 10.2 Europe
 - 10.2.1 United Kingdom
 - 10.2.2 Germany
 - 10.2.3 France
 - 10.2.4 Italy
 - 10.2.5 Spain
 - 10.2.6 Netherlands
 - 10.2.7 Belgium
 - 10.2.8 Sweden
 - 10.2.9 Switzerland
 - 10.2.10 Poland
 - 10.2.11 Rest of Europe
- 10.3 Asia Pacific
 - 10.3.1 China
 - 10.3.2 Japan
 - 10.3.3 India
 - 10.3.4 South Korea
 - 10.3.5 Australia
 - 10.3.6 Indonesia
 - 10.3.7 Thailand
 - 10.3.8 Malaysia
 - 10.3.9 Singapore
 - 10.3.10 Vietnam
 - 10.3.11 Rest of Asia Pacific
- 10.4 South America
 - 10.4.1 Brazil
 - 10.4.2 Argentina

- 10.4.3 Colombia
- 10.4.4 Chile
- 10.4.5 Peru
- 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
 - 10.5.1 Middle East
 - 10.5.1.1 Saudi Arabia
 - 10.5.1.2 United Arab Emirates
 - 10.5.1.3 Qatar
 - 10.5.1.4 Israel
 - 10.5.1.5 Rest of Middle East
 - 10.5.2 Africa
 - 10.5.2.1 South Africa
 - 10.5.2.2 Egypt
 - 10.5.2.3 Morocco
 - 10.5.2.4 Rest of Africa

11 STRATEGIC MARKET INTELLIGENCE

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments
- 12.5 Other Strategic Initiatives

13 COMPANY PROFILES

- 13.1 Viasat, Inc.
- 13.2 Iridium Communications Inc.
- 13.3 SES S.A.
- 13.4 Eutelsat Communications S.A.
- 13.5 Intelsat S.A.

- 13.6 Inmarsat Global Limited
- 13.7 Airbus SE
- 13.8 The Boeing Company
- 13.9 L3Harris Technologies, Inc.
- 13.10 Honeywell International Inc.
- 13.11 Thales S.A.
- 13.12 Lockheed Martin Corporation
- 13.13 Northrop Grumman Corporation
- 13.14 RTX Corporation
- 13.15 Space Exploration Technologies Corp.

List Of Tables

LIST OF TABLES

Table 1 Global Space-Based Communication Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Space-Based Communication Market, By Communication Type (2023–2034) (\$MN)

Table 3 Global Space-Based Communication Market, By Satellite Broadband (2023–2034) (\$MN)

Table 4 Global Space-Based Communication Market, By Satellite Voice (2023–2034) (\$MN)

Table 5 Global Space-Based Communication Market, By Satellite Data (2023–2034) (\$MN)

Table 6 Global Space-Based Communication Market, By Satellite Broadcasting (2023–2034) (\$MN)

Table 7 Global Space-Based Communication Market, By Other Communication Types (2023–2034) (\$MN)

Table 8 Global Space-Based Communication Market, By Frequency Band (2023–2034) (\$MN)

Table 9 Global Space-Based Communication Market, By L-Band (2023–2034) (\$MN)

Table 10 Global Space-Based Communication Market, By S-Band (2023–2034) (\$MN)

Table 11 Global Space-Based Communication Market, By C-Band (2023–2034) (\$MN)

Table 12 Global Space-Based Communication Market, By Ku/Ka-Band (2023–2034) (\$MN)

Table 13 Global Space-Based Communication Market, By Other Frequency Bands (2023–2034) (\$MN)

Table 14 Global Space-Based Communication Market, By Orbit (2023–2034) (\$MN)

Table 15 Global Space-Based Communication Market, By Low Earth Orbit (2023–2034) (\$MN)

Table 16 Global Space-Based Communication Market, By Medium Earth Orbit (2023–2034) (\$MN)

Table 17 Global Space-Based Communication Market, By Geostationary Orbit (2023–2034) (\$MN)

Table 18 Global Space-Based Communication Market, By Highly Elliptical Orbit (2023–2034) (\$MN)

Table 19 Global Space-Based Communication Market, By Other Orbit Types (2023–2034) (\$MN)

Table 20 Global Space-Based Communication Market, By Application (2023–2034)

(\$MN)

Table 21 Global Space-Based Communication Market, By Broadband Connectivity
(2023–2034) (\$MN)

Table 22 Global Space-Based Communication Market, By Remote Communications
(2023–2034) (\$MN)

Table 23 Global Space-Based Communication Market, By Disaster Recovery
(2023–2034) (\$MN)

Table 24 Global Space-Based Communication Market, By Mission Communications
(2023–2034) (\$MN)

Table 25 Global Space-Based Communication Market, By Other Applications
(2023–2034) (\$MN)

Table 26 Global Space-Based Communication Market, By End User (2023–2034)
(\$MN)

Table 27 Global Space-Based Communication Market, By Telecommunications
(2023–2034) (\$MN)

Table 28 Global Space-Based Communication Market, By Government & Defense
(2023–2034) (\$MN)

Table 29 Global Space-Based Communication Market, By Maritime (2023–2034) (\$MN)

Table 30 Global Space-Based Communication Market, By Aviation (2023–2034) (\$MN)

Table 31 Global Space-Based Communication Market, By Other End Users
(2023–2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

I would like to order

Product name: Space-Based Communication Market Forecasts to 2034 – Global Analysis By Communication Type (Satellite Broadband, Satellite Voice, Satellite Data, Satellite Broadcasting and Other Communication Types), Frequency Band, Orbit, Application, End User and Geography

Product link: <https://marketpublishers.com/r/SF8B134F5917EN.html>

Price: US\$ 4,150.00 (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/SF8B134F5917EN.html>