

Satellite Ground Station Equipment Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Government, Commercial), By Products (NOC Equipment, VSAT Equipment, Antennas, Power Units, Gateways, Test and Monitoring Equipment, Others), By Function (Communication, Earth Observation, Space Research, Navigation), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

The Global Satellite Ground Station Equipment Market reached USD 68.56 Billion in 2024 and is projected to reach USD 95.05 Billion by 2030, growing at a CAGR of 5.50% during the forecast period. The market is witnessing substantial growth, driven by increasing demand for satellite-based communication, Earth observation, defense applications, and space exploration. The proliferation of satellite constellations in Low Earth Orbit (LEO), Medium Earth Orbit (MEO), and Geostationary Earth Orbit (GEO) by companies such as SpaceX and OneWeb is fueling the need for advanced, scalable ground infrastructure. Moreover, the expansion of 5G networks, maritime and aviation connectivity, and secure military communications is further stimulating investment in next-generation ground station equipment. Technological advancements, including cloud-based systems, software-defined infrastructure, and phased-array antennas, are enhancing efficiency and cost-effectiveness. Government initiatives, cybersecurity imperatives, and the rise of satellite-as-a-service business models are also contributing to broader adoption. As satellite networks grow and diversify, the demand for reliable, secure, and high-performance ground station systems is set to accelerate across

multiple sectors.

Key Market Drivers

Growing Satellite Constellations

The global rise in satellite constellations, particularly for global internet delivery and Earth observation, is significantly accelerating demand for satellite ground station equipment. These expansive satellite networks require robust, scalable ground infrastructure to maintain constant communication and data exchange. With increasing reliance on satellite-based broadband, voice, and data services—especially in remote or underserved areas—ground station systems are essential for ensuring connectivity and service continuity. Additionally, the growing use of Earth observation satellites for environmental monitoring, precision agriculture, and disaster response reinforces the need for advanced systems capable of efficiently receiving, processing, and distributing high-resolution data.

Key Market Challenges

Stringent Government Regulations

The satellite ground station equipment market operates within a tightly regulated environment shaped by national security priorities, international spectrum coordination, and environmental compliance mandates. Governments maintain strict oversight of radio spectrum usage to prevent interference between satellite systems, resulting in lengthy and complex licensing procedures. For example, the U.S. FCC's rigorous approval framework can delay project timelines and increase operational costs, especially for new market entrants. Ground station developers must also meet environmental impact requirements and energy efficiency standards, adding to the financial and administrative burden. Varying regulations across countries further hinder the standardization of global operations, posing a significant challenge to companies looking to scale internationally.

Key Market Trends

Technological Innovation

Technological advancements are a defining trend in the satellite ground station equipment market. The push for higher efficiency, scalability, and cost reduction is

driving the adoption of software-defined ground stations, automated network operation centers, and next-generation antennas. Innovations such as virtualized ground stations and cloud-based platforms allow for real-time data handling and flexible resource management. For instance, in February 2025, L3Harris Technologies completed the Preliminary Design Review for a high-resolution imager under NOAA's GeoXO satellite system, marking progress in advanced weather monitoring capabilities. As end-user industries demand faster and more reliable satellite communication, the emphasis on smart, adaptive, and high-performance ground equipment continues to intensify.

Key Market Players

L3Harris Technologies, Inc.

Thales S.A.

Viasat Inc.

EchoStar Corporation

Kratos Defense & Security Solutions, Inc.

Gilat Satellite Networks

Cobham Limited

Comtech Telecommunications Corp

GomSpace A/S

ORBCOMM Inc.

Report Scope:

In this report, the Global Satellite Ground Station Equipment Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Satellite Ground Station Equipment Market, By Application:

Government

Commercial

Satellite Ground Station Equipment Market, By Products:

NOC Equipment

VSAT Equipment

Antennas

Power Units

Gateways

Test and Monitoring Equipment

Others

Satellite Ground Station Equipment Market, By Function:

Communication

Earth Observation

Space Research

Navigation

Satellite Ground Station Equipment Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

Germany

Spain

United Kingdom

Russia

Norway

France

Italy

Asia-Pacific

China

Japan

Australia

India

South Korea

Thailand

Indonesia

South America

Brazil

Argentina

Middle East & Africa

Turkey

Israel

Saudi Arabia

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Satellite Ground Station Equipment Market.

Available Customizations:

Global Satellite Ground Station Equipment Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. INTRODUCTION

- 1.1. Research Tenure Considered
- 1.2. Market Definition
- 1.3. Scope of the Market
- 1.4. Markets Covered
- 1.5. Years Considered for Study
- 1.6. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Regions

4. GLOBAL SATELLITE GROUND STATION EQUIPMENT MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Application Market Share Analysis (Government, Commercial)
 - 4.2.2. By Products Market Share Analysis (NOC Equipment, VSAT Equipment, Antennas, Power Units, Gateways, Test and Monitoring Equipment, Others)
 - 4.2.3. By Function Market Share Analysis (Communication, Earth Observation, Space Research, Navigation)
 - 4.2.4. By Regional Market Share Analysis
 - 4.2.5. By Top 5 Companies Market Share Analysis, Others (2024)

4.3. Satellite Ground Station Equipment Market Mapping & Opportunity Assessment

5. NORTH AMERICA SATELLITE GROUND STATION EQUIPMENT MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Application Market Share Analysis

5.2.2. By Products Market Share Analysis

5.2.3. By Function Market Share Analysis

5.2.4. By Country Market Share Analysis

5.2.4.1. United States Satellite Ground Station Equipment Market Outlook

5.2.4.1.1. Market Size & Forecast

5.2.4.1.1.1. By Value

5.2.4.1.2. Market Share & Forecast

5.2.4.1.2.1. By Application Market Share Analysis

5.2.4.1.2.2. By Products Market Share Analysis

5.2.4.1.2.3. By Function Market Share Analysis

5.2.4.2. Canada Satellite Ground Station Equipment Market Outlook

5.2.4.2.1. Market Size & Forecast

5.2.4.2.1.1. By Value

5.2.4.2.2. Market Share & Forecast

5.2.4.2.2.1. By Application Market Share Analysis

5.2.4.2.2.2. By Products Market Share Analysis

5.2.4.2.2.3. By Function Market Share Analysis

5.2.4.3. Mexico Satellite Ground Station Equipment Market Outlook

5.2.4.3.1. Market Size & Forecast

5.2.4.3.1.1. By Value

5.2.4.3.2. Market Share & Forecast

5.2.4.3.2.1. By Application Market Share Analysis

5.2.4.3.2.2. By Products Market Share Analysis

5.2.4.3.2.3. By Function Market Share Analysis

6. EUROPE & CIS SATELLITE GROUND STATION EQUIPMENT MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Application Market Share Analysis

6.2.2. By Products Market Share Analysis

6.2.3. By Function Market Share Analysis

6.2.4. By Country Market Share Analysis

6.2.4.1. Germany Satellite Ground Station Equipment Market Outlook

6.2.4.1.1. Market Size & Forecast

6.2.4.1.1.1. By Value

6.2.4.1.2. Market Share & Forecast

6.2.4.1.2.1. By Application Market Share Analysis

6.2.4.1.2.2. By Products Market Share Analysis

6.2.4.1.2.3. By Function Market Share Analysis

6.2.4.2. Spain Satellite Ground Station Equipment Market Outlook

6.2.4.2.1. Market Size & Forecast

6.2.4.2.1.1. By Value

6.2.4.2.2. Market Share & Forecast

6.2.4.2.2.1. By Application Market Share Analysis

6.2.4.2.2.2. By Products Market Share Analysis

6.2.4.2.2.3. By Function Market Share Analysis

6.2.4.3. United Kingdom Satellite Ground Station Equipment Market Outlook

6.2.4.3.1. Market Size & Forecast

6.2.4.3.1.1. By Value

6.2.4.3.2. Market Share & Forecast

6.2.4.3.2.1. By Application Market Share Analysis

6.2.4.3.2.2. By Products Market Share Analysis

6.2.4.3.2.3. By Function Market Share Analysis

6.2.4.4. Russia Satellite Ground Station Equipment Market Outlook

6.2.4.4.1. Market Size & Forecast

6.2.4.4.1.1. By Value

6.2.4.4.2. Market Share & Forecast

6.2.4.4.2.1. By Application Market Share Analysis

6.2.4.4.2.2. By Products Market Share Analysis

6.2.4.4.2.3. By Function Market Share Analysis

6.2.4.5. Norway Satellite Ground Station Equipment Market Outlook

6.2.4.5.1. Market Size & Forecast

6.2.4.5.1.1. By Value

6.2.4.5.2. Market Share & Forecast

6.2.4.5.2.1. By Application Market Share Analysis

6.2.4.5.2.2. By Products Market Share Analysis

- 6.2.4.5.2.3. By Function Market Share Analysis
- 6.2.4.6. France Satellite Ground Station Equipment Market Outlook
 - 6.2.4.6.1. Market Size & Forecast
 - 6.2.4.6.1.1. By Value
 - 6.2.4.6.2. Market Share & Forecast
 - 6.2.4.6.2.1. By Application Market Share Analysis
 - 6.2.4.6.2.2. By Products Market Share Analysis
 - 6.2.4.6.2.3. By Function Market Share Analysis
- 6.2.4.7. Italy Satellite Ground Station Equipment Market Outlook
 - 6.2.4.7.1. Market Size & Forecast
 - 6.2.4.7.1.1. By Value
 - 6.2.4.7.2. Market Share & Forecast
 - 6.2.4.7.2.1. By Application Market Share Analysis
 - 6.2.4.7.2.2. By Products Market Share Analysis
 - 6.2.4.7.2.3. By Function Market Share Analysis

7. ASIA-PACIFIC SATELLITE GROUND STATION EQUIPMENT MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Application Market Share Analysis
 - 7.2.2. By Products Market Share Analysis
 - 7.2.3. By Function Market Share Analysis
 - 7.2.4. By Country Share Analysis
 - 7.2.4.1. China Satellite Ground Station Equipment Market Outlook
 - 7.2.4.1.1. Market Size & Forecast
 - 7.2.4.1.1.1. By Value
 - 7.2.4.1.2. Market Share & Forecast
 - 7.2.4.1.2.1. By Application Market Share Analysis
 - 7.2.4.1.2.2. By Products Market Share Analysis
 - 7.2.4.1.2.3. By Function Market Share Analysis
 - 7.2.4.2. Japan Satellite Ground Station Equipment Market Outlook
 - 7.2.4.2.1. Market Size & Forecast
 - 7.2.4.2.1.1. By Value
 - 7.2.4.2.2. Market Share & Forecast
 - 7.2.4.2.2.1. By Application Market Share Analysis
 - 7.2.4.2.2.2. By Products Market Share Analysis

- 7.2.4.2.2.3. By Function Market Share Analysis
- 7.2.4.3. Australia Satellite Ground Station Equipment Market Outlook
 - 7.2.4.3.1. Market Size & Forecast
 - 7.2.4.3.1.1. By Value
 - 7.2.4.3.2. Market Share & Forecast
 - 7.2.4.3.2.1. By Application Market Share Analysis
 - 7.2.4.3.2.2. By Products Market Share Analysis
 - 7.2.4.3.2.3. By Function Market Share Analysis
- 7.2.4.4. India Satellite Ground Station Equipment Market Outlook
 - 7.2.4.4.1. Market Size & Forecast
 - 7.2.4.4.1.1. By Value
 - 7.2.4.4.2. Market Share & Forecast
 - 7.2.4.4.2.1. By Application Market Share Analysis
 - 7.2.4.4.2.2. By Products Market Share Analysis
 - 7.2.4.4.2.3. By Function Market Share Analysis
- 7.2.4.5. South Korea Satellite Ground Station Equipment Market Outlook
 - 7.2.4.5.1. Market Size & Forecast
 - 7.2.4.5.1.1. By Value
 - 7.2.4.5.2. Market Share & Forecast
 - 7.2.4.5.2.1. By Application Market Share Analysis
 - 7.2.4.5.2.2. By Products Market Share Analysis
 - 7.2.4.5.2.3. By Function Market Share Analysis
- 7.2.4.6. Indonesia Satellite Ground Station Equipment Market Outlook
 - 7.2.4.6.1. Market Size & Forecast
 - 7.2.4.6.1.1. By Value
 - 7.2.4.6.2. Market Share & Forecast
 - 7.2.4.6.2.1. By Application Market Share Analysis
 - 7.2.4.6.2.2. By Products Market Share Analysis
 - 7.2.4.6.2.3. By Function Market Share Analysis
- 7.2.4.7. Thailand Satellite Ground Station Equipment Market Outlook
 - 7.2.4.7.1. Market Size & Forecast
 - 7.2.4.7.1.1. By Value
 - 7.2.4.7.2. Market Share & Forecast
 - 7.2.4.7.2.1. By Application Market Share Analysis
 - 7.2.4.7.2.2. By Products Market Share Analysis
 - 7.2.4.7.2.3. By Function Market Share Analysis

8. SOUTH AMERICA SATELLITE GROUND STATION EQUIPMENT MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Application Market Share Analysis

8.2.2. By Products Market Share Analysis

8.2.3. By Function Market Share Analysis

8.2.4. By Country Market Share Analysis

8.2.4.1. Brazil Satellite Ground Station Equipment Market Outlook

8.2.4.1.1. Market Size & Forecast

8.2.4.1.1.1. By Value

8.2.4.1.2. Market Share & Forecast

8.2.4.1.2.1. By Application Market Share Analysis

8.2.4.1.2.2. By Products Market Share Analysis

8.2.4.1.2.3. By Function Market Share Analysis

8.2.4.2. Argentina Satellite Ground Station Equipment Market Outlook

8.2.4.2.1. Market Size & Forecast

8.2.4.2.1.1. By Value

8.2.4.2.2. Market Share & Forecast

8.2.4.2.2.1. By Application Market Share Analysis

8.2.4.2.2.2. By Products Market Share Analysis

8.2.4.2.2.3. By Function Market Share Analysis

9. MIDDLE EAST & AFRICA SATELLITE GROUND STATION EQUIPMENT MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Application Market Share Analysis

9.2.2. By Products Market Share Analysis

9.2.3. By Function Market Share Analysis

9.2.4. By Country Market Share Analysis

9.2.4.1. Turkey Satellite Ground Station Equipment Market Outlook

9.2.4.1.1. Market Size & Forecast

9.2.4.1.1.1. By Value

9.2.4.1.2. Market Share & Forecast

9.2.4.1.2.1. By Application Market Share Analysis

9.2.4.1.2.2. By Products Market Share Analysis

- 9.2.4.1.2.3. By Function Market Share Analysis
- 9.2.4.2. Israel Satellite Ground Station Equipment Market Outlook
 - 9.2.4.2.1. Market Size & Forecast
 - 9.2.4.2.1.1. By Value
 - 9.2.4.2.2. Market Share & Forecast
 - 9.2.4.2.2.1. By Application Market Share Analysis
 - 9.2.4.2.2.2. By Products Market Share Analysis
 - 9.2.4.2.2.3. By Function Market Share Analysis
- 9.2.4.3. Saudi Arabia Satellite Ground Station Equipment Market Outlook
 - 9.2.4.3.1. Market Size & Forecast
 - 9.2.4.3.1.1. By Value
 - 9.2.4.3.2. Market Share & Forecast
 - 9.2.4.3.2.1. By Application Market Share Analysis
 - 9.2.4.3.2.2. By Products Market Share Analysis
 - 9.2.4.3.2.3. By Function Market Share Analysis
- 9.2.4.4. South Africa Satellite Ground Station Equipment Market Outlook
 - 9.2.4.4.1. Market Size & Forecast
 - 9.2.4.4.1.1. By Value
 - 9.2.4.4.2. Market Share & Forecast
 - 9.2.4.4.2.1. By Application Market Share Analysis
 - 9.2.4.4.2.2. By Products Market Share Analysis
 - 9.2.4.4.2.3. By Function Market Share Analysis

10. MARKET DYNAMICS

- 10.1. Drivers
- 10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

12. SWOT ANALYSIS

13. COMPETITIVE LANDSCAPE

- 13.1. Company Profiles
 - 13.1.1. L3Harris Technologies, Inc.
 - 13.1.1.1. Company Details
 - 13.1.1.2. Products
 - 13.1.1.3. Key Market Focus & Geographical Presence

- 13.1.1.4. Financials
- 13.1.1.5. Recent Developments
- 13.1.1.6. Key Management Personnel
- 13.1.2. Thales S.A.
- 13.1.3. Viasat Inc.
- 13.1.4. EchoStar Corporation
- 13.1.5. Kratos Defense & Security Solutions, Inc.
- 13.1.6. Gilat Satellite Networks
- 13.1.7. Cobham Limited
- 13.1.8. Comtech Telecommunications Corp
- 13.1.9. GomSpace A/S
- 13.1.10. ORBCOMM Inc.

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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