

Space Situational Awareness & Tracking Market Forecasts to 2034 - Global Analysis By Solution Type (Ground-Based SSA Systems, Space-Based SSA Systems, Hybrid SSA Systems, Data Processing & Analytics Platforms and Visualization & Decision Support Tools), Service Offering, Orbital Regime, Application, End User and By Geography

<https://marketpublishers.com/r/S5EC0FA9245DEN.html>

Date: September 2026

Pages: 200

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

ID: S5EC0FA9245DEN

Abstracts

According to Statistics MRC, the Global Space Situational Awareness & Tracking Market is accounted for \$1.9 billion in 2026 and is expected to reach \$4.1 billion by 2034 growing at a CAGR of 10.0% during the forecast period. Space Situational Awareness and Tracking focuses on observing and understanding objects operating around Earth, including active satellites and orbital debris. The field uses radar networks, optical instruments, telescopes, spacecraft sensors, and analytical platforms to locate objects and forecast their movements. These systems enable operators to evaluate potential collisions, improve orbital decision-making, and maintain spacecraft safety. Rising satellite launches, greater orbital congestion, and expanding private-sector space programs are increasing adoption. SSA capabilities are increasingly important for mission coordination, debris management, operational security, and safeguarding essential space assets.

According to the European Space Agency (ESA), about 46,650 space objects were regularly tracked and maintained in space-surveillance catalogues as of 31 July 2026, including approximately 16,000 functioning satellites. ESA also estimates around 1.2 million debris objects measuring 1–10 cm and about 140 million objects measuring 1 mm–1 cm are present in orbit.

Market Dynamics:

Driver:

Increasing satellite deployments and orbital congestion

Growing satellite deployment is significantly accelerating demand for Space Situational Awareness & Tracking solutions. The expansion of communication networks, navigation systems, Earth-imaging missions, and defense satellites is increasing the number of objects operating around Earth. This greater orbital population creates stronger requirements for continuous identification, observation, and trajectory monitoring. Satellite operators depend on precise tracking information to perform collision avoidance, optimize maneuvers, and protect missions. Consequently, increasing congestion is encouraging investment in sophisticated sensors, surveillance infrastructure, analytics platforms, and automated orbital prediction technologies.

Restraint:

High cost of advanced tracking infrastructure

Significant infrastructure expenses represent a key limitation for the Space Situational Awareness & Tracking Market. Building and operating sophisticated radar networks, optical observation systems, orbital sensors, communications infrastructure, and analytical platforms demands considerable financial resources. Smaller operators and newer space businesses may struggle to justify such investments, slowing deployment. Additional spending on system maintenance, technological improvements, cybersecurity, calibration, data interoperability, and specialized expertise adds to overall costs. These financial pressures can postpone infrastructure upgrades and make advanced tracking solutions less accessible to organizations operating under constrained budgets.

Opportunity:

Expansion of commercial space activities

Growing private-sector participation in space is opening new opportunities for Space Situational Awareness & Tracking providers. The expansion of commercial satellite networks, large constellations, private space stations, launch businesses, and emerging orbital services is increasing demand for dependable monitoring capabilities. Commercial spacecraft operators require precise orbital data to improve maneuver planning, avoid potential collisions, and maintain operational continuity. This trend supports opportunities for specialized tracking services, predictive analytics, warning systems, and automated surveillance platforms. Public-private collaborations can also encourage broader implementation of sophisticated SSA infrastructure worldwide.

Threat:

Increasing cybersecurity and data-security risks

Growing cybersecurity vulnerabilities represent an important threat to the Space Situational Awareness & Tracking Market. SSA infrastructure relies on connected sensors, ground facilities, communications systems, and digital analytics platforms that can become targets for cyberattacks. Unauthorized access or data manipulation could interfere with orbital monitoring and expose sensitive information. Greater digital dependence also increases security exposure across the ecosystem. Consequently, organizations may face higher cybersecurity expenditures and operational risks, requiring stronger encryption, network protection, continuous surveillance, threat detection, and resilient system architectures to safeguard tracking capabilities.

Covid-19 Impact:

The COVID-19 pandemic created short-term challenges for the Space Situational Awareness & Tracking Market by disrupting supply chains, restricting personnel access, postponing launches, and slowing infrastructure projects. Limited facility operations affected tracking-system maintenance, while difficulties obtaining electronic components delayed the manufacturing and deployment of related technologies. Nevertheless, government-supported programs helped sustain parts of the space industry, while the critical need for orbital surveillance maintained demand. The crisis further encouraged stronger cybersecurity, remote monitoring, resilient infrastructure, and supply-chain management, supporting future SSA market development.

The ground-based SSA systems segment is expected to be the largest during the forecast period

The ground-based SSA systems segment is expected to account for the largest market share during the forecast period because terrestrial surveillance infrastructure remains central to space-object detection and tracking. Radar installations, optical telescopes, and related ground sensors collect observations that help establish and update information about satellites and orbital debris. Their established technology base, broad monitoring capabilities, and connection with space-object catalogues make them important for conjunction analysis and debris surveillance. These networks additionally enable launch support, re-entry monitoring, orbital calculations, and informed operational decisions, serving the requirements of both public agencies and commercial space companies.

The commercial satellite operators segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the commercial satellite operators segment is predicted to witness the highest growth rate as private space businesses deploy larger and more complex satellite networks. Effective SSA capabilities are becoming essential for

tracking spacecraft, planning orbital adjustments, assessing conjunction risks, and protecting operational performance. Increasing deployments across broadband communications, navigation, Earth imaging, and other commercial applications are strengthening requirements for reliable tracking solutions. Operators are additionally turning toward automated surveillance, predictive analytics, and real-time orbital information, supporting opportunities for specialized providers offering flexible, scalable, accurate, and economical space-monitoring services.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, supported by well-developed surveillance infrastructure, government investment, and a mature private space industry. The region has extensive capabilities involving radar systems, optical observation networks, satellite tracking, and advanced analytical platforms. Strong U.S. defense priorities and space programs contribute substantially to regional demand, while expanding commercial satellite activities create additional requirements for orbital monitoring. Growing space traffic, security concerns, and increasing constellation deployments are further strengthening North America's position within the global SSA ecosystem.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR as regional space capabilities expand rapidly. Growing satellite fleets, stronger government space initiatives, and heightened concerns regarding orbital safety are increasing demand for sophisticated surveillance solutions. China, India, Japan, South Korea, and Australia are developing tracking networks and investing in technologies for monitoring space objects. The expansion of commercial launches and satellite services is adding further momentum, while regional collaboration and space-security initiatives are encouraging wider deployment of advanced SSA technologies.

Key players in the market

Some of the key players in Space Situational Awareness & Tracking Market include Lockheed Martin Corporation, L3Harris Technologies, Inc., Northrop Grumman Corporation, Raytheon Technologies (RTX), Airbus Defence and Space, Kratos Defense & Security Solutions, Inc., Parsons Corporation, Peraton, ExoAnalytic Solutions, NorthStar Earth & Space Inc., Vision Engineering Solutions, LLC, GMV Innovating Solutions, Applied Defense Solutions (ADS), Schafer Corporation, Elecnor Deimos Group, Telespazio S.P.A, BAE Systems and Etamax Space.

Key Developments:

In August 2026, Northrop Grumman and Aeronix, Inc., an Aeronix Technologies Group company, launched a multimillion-dollar strategic partnership to accelerate the development of advanced space-based cryptographic systems. The collaboration builds on a successful prototype effort between the two companies, which delivered a space-based mesh networking solution for the Department of War to fast-track secure, resilient data sharing capabilities in low-earth satellite orbit networks.

In July 2026, Lockheed Martin and Rheinmetall announced the signing of a memorandum of understanding (MOU) that addresses the immediate demand for locally produced munitions in Europe. With the support of the United States and German governments, the agreement marks the next step toward establishing a joint venture to create the first European centre of excellence for the manufacturing, integration and distribution of ATACMS across NATO and allied European forces.

In June 2026, L3Harris Technologies said it is using its global scale and local partnerships to deliver tailored support for NATO nations. The company said it aims to provide capability ahead of need as European countries respond to heightened threat signals from adversaries. The company said effective deterrence requires capabilities that are resilient in all operational environments and interoperable across echelons, domains and coalitions.

Solution Types Covered:

Ground-Based SSA Systems

Space-Based SSA Systems

Hybrid SSA Systems

Data Processing & Analytics Platforms

Visualization & Decision Support Tools

Service Offerings Covered:

Tracking & Monitoring Services

Collision Avoidance & Conjunction Analysis

Debris Detection & Characterization

Orbit Determination & Prediction

Space Weather Monitoring

Satellite Health & Status Monitoring

Orbital Regimes Covered:

Low Earth Orbit (LEO)

Medium Earth Orbit (MEO)

Geostationary Orbit (GEO)

Highly Elliptical Orbit (HEO)

Cislunar & Deep Space

Applications Covered:

Space Traffic Management

Satellite Fleet Operations

Launch Vehicle Tracking

Debris Mitigation & Removal

National Security & Defense

Scientific Research & Exploration

End Users Covered:

Government Space Agencies

Defense & Military Organizations

Commercial Satellite Operators

Research Institutions & Universities

Insurance & Risk Management Firms

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:

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 SITUATIONAL AWARENESS & TRACKING MARKET, BY SOLUTION TYPE

- 5.1 Ground-Based SSA Systems
- 5.2 Space-Based SSA Systems
- 5.3 Hybrid SSA Systems
- 5.4 Data Processing & Analytics Platforms
- 5.5 Visualization & Decision Support Tools

6 GLOBAL SPACE SITUATIONAL AWARENESS & TRACKING MARKET, BY SERVICE OFFERING

- 6.1 Tracking & Monitoring Services
- 6.2 Collision Avoidance & Conjunction Analysis
- 6.3 Debris Detection & Characterization
- 6.4 Orbit Determination & Prediction
- 6.5 Space Weather Monitoring
- 6.6 Satellite Health & Status Monitoring

7 GLOBAL SPACE SITUATIONAL AWARENESS & TRACKING MARKET, BY ORBITAL REGIME

- 7.1 Low Earth Orbit (LEO)
- 7.2 Medium Earth Orbit (MEO)
- 7.3 Geostationary Orbit (GEO)
- 7.4 Highly Elliptical Orbit (HEO)
- 7.5 Cislunar & Deep Space

8 GLOBAL SPACE SITUATIONAL AWARENESS & TRACKING MARKET, BY APPLICATION

- 8.1 Space Traffic Management
- 8.2 Satellite Fleet Operations
- 8.3 Launch Vehicle Tracking
- 8.4 Debris Mitigation & Removal

8.5 National Security & Defense

8.6 Scientific Research & Exploration

9 GLOBAL SPACE SITUATIONAL AWARENESS & TRACKING MARKET, BY END USER

9.1 Government Space Agencies

9.2 Defense & Military Organizations

9.3 Commercial Satellite Operators

9.4 Research Institutions & Universities

9.5 Insurance & Risk Management Firms

10 GLOBAL SPACE SITUATIONAL AWARENESS & TRACKING 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 Lockheed Martin Corporation
- 13.2 L3Harris Technologies, Inc.
- 13.3 Northrop Grumman Corporation
- 13.4 Raytheon Technologies (RTX)
- 13.5 Airbus Defence and Space
- 13.6 Kratos Defense & Security Solutions, Inc.
- 13.7 Parsons Corporation
- 13.8 Peraton
- 13.9 ExoAnalytic Solutions
- 13.10 NorthStar Earth & Space Inc.
- 13.11 Vision Engineering Solutions, LLC
- 13.12 GMV Innovating Solutions
- 13.13 Applied Defense Solutions (ADS)
- 13.14 Schafer Corporation
- 13.15 Elecnor Deimos Group
- 13.16 Telespazio S.P.A
- 13.17 BAE Systems
- 13.18 Etamax Space

List Of Tables

LIST OF TABLES

Table 1 Global Space Situational Awareness & Tracking Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Space Situational Awareness & Tracking Market Outlook, By Solution Type (2023-2034) (\$MN)

Table 3 Global Space Situational Awareness & Tracking Market Outlook, By Ground-Based SSA Systems (2023-2034) (\$MN)

Table 4 Global Space Situational Awareness & Tracking Market Outlook, By Space-Based SSA Systems (2023-2034) (\$MN)

Table 5 Global Space Situational Awareness & Tracking Market Outlook, By Hybrid SSA Systems (2023-2034) (\$MN)

Table 6 Global Space Situational Awareness & Tracking Market Outlook, By Data Processing & Analytics Platforms (2023-2034) (\$MN)

Table 7 Global Space Situational Awareness & Tracking Market Outlook, By Visualization & Decision Support Tools (2023-2034) (\$MN)

Table 8 Global Space Situational Awareness & Tracking Market Outlook, By Service Offering (2023-2034) (\$MN)

Table 9 Global Space Situational Awareness & Tracking Market Outlook, By Tracking & Monitoring Services (2023-2034) (\$MN)

Table 10 Global Space Situational Awareness & Tracking Market Outlook, By Collision Avoidance & Conjunction Analysis (2023-2034) (\$MN)

Table 11 Global Space Situational Awareness & Tracking Market Outlook, By Debris Detection & Characterization (2023-2034) (\$MN)

Table 12 Global Space Situational Awareness & Tracking Market Outlook, By Orbit Determination & Prediction (2023-2034) (\$MN)

Table 13 Global Space Situational Awareness & Tracking Market Outlook, By Space Weather Monitoring (2023-2034) (\$MN)

Table 14 Global Space Situational Awareness & Tracking Market Outlook, By Satellite Health & Status Monitoring (2023-2034) (\$MN)

Table 15 Global Space Situational Awareness & Tracking Market Outlook, By Orbital Regime (2023-2034) (\$MN)

Table 16 Global Space Situational Awareness & Tracking Market Outlook, By Low Earth Orbit (LEO) (2023-2034) (\$MN)

Table 17 Global Space Situational Awareness & Tracking Market Outlook, By Medium Earth Orbit (MEO) (2023-2034) (\$MN)

Table 18 Global Space Situational Awareness & Tracking Market Outlook, By

Geostationary Orbit (GEO) (2023-2034) (\$MN)

Table 19 Global Space Situational Awareness & Tracking Market Outlook, By Highly Elliptical Orbit (HEO) (2023-2034) (\$MN)

Table 20 Global Space Situational Awareness & Tracking Market Outlook, By Cislunar & Deep Space (2023-2034) (\$MN)

Table 21 Global Space Situational Awareness & Tracking Market Outlook, By Application (2023-2034) (\$MN)

Table 22 Global Space Situational Awareness & Tracking Market Outlook, By Space Traffic Management (2023-2034) (\$MN)

Table 23 Global Space Situational Awareness & Tracking Market Outlook, By Satellite Fleet Operations (2023-2034) (\$MN)

Table 24 Global Space Situational Awareness & Tracking Market Outlook, By Launch Vehicle Tracking (2023-2034) (\$MN)

Table 25 Global Space Situational Awareness & Tracking Market Outlook, By Debris Mitigation & Removal (2023-2034) (\$MN)

Table 26 Global Space Situational Awareness & Tracking Market Outlook, By National Security & Defense (2023-2034) (\$MN)

Table 27 Global Space Situational Awareness & Tracking Market Outlook, By Scientific Research & Exploration (2023-2034) (\$MN)

Table 28 Global Space Situational Awareness & Tracking Market Outlook, By End User (2023-2034) (\$MN)

Table 29 Global Space Situational Awareness & Tracking Market Outlook, By Government Space Agencies (2023-2034) (\$MN)

Table 30 Global Space Situational Awareness & Tracking Market Outlook, By Defense & Military Organizations (2023-2034) (\$MN)

Table 31 Global Space Situational Awareness & Tracking Market Outlook, By Commercial Satellite Operators (2023-2034) (\$MN)

Table 32 Global Space Situational Awareness & Tracking Market Outlook, By Research Institutions & Universities (2023-2034) (\$MN)

Table 33 Global Space Situational Awareness & Tracking Market Outlook, By Insurance & Risk Management Firms (2023-2034) (\$MN)

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

I would like to order

Product name: Space Situational Awareness & Tracking Market Forecasts to 2034 - Global Analysis By Solution Type (Ground-Based SSA Systems, Space-Based SSA Systems, Hybrid SSA Systems, Data Processing & Analytics Platforms and Visualization & Decision Support Tools), Service Offering, Orbital Regime, Application, End User and By Geography

Product link: <https://marketpublishers.com/r/S5EC0FA9245DEN.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/S5EC0FA9245DEN.html>