+357 96 030922
info@marketpublishers.com

Global Earth Observation Small Satellite Market Size Study & Forecast, by Mass (Mini Satellite (101–1200 kg), Micro Satellite (11–100 kg), Nano Satellite (1–10 kg)), System (Satellite Bus, Payloads), By Platform (Satellite-Based EO, UAV/Drone-Based EO, Ground-Based EO, Airborne EO), By Orbit Type (Orbit Type, Medium Earth Orbit (MEO), Geostationary Orbit (GEO)), By Technology (Optical Imaging, Radar Imaging, Thermal Imaging, LiDAR Technology), By Application (Environmental Monitoring, Disaster Management, Agriculture and Forestry, Urban Planning and Infrastructure, Maritime Surveillance, Energy and Power Sector, Climate Change Research) and Regional Forecasts 2025-2035

https://marketpublishers.com/r/G019B92C972EEN.html
Date: March 2026
Pages: 285
Price: US$ 3,750.00 (Single User License)
ID: G019B92C972EEN

Abstracts

The Global Earth Observation Small Satellite Market is valued at approximately USD 2.28 billion in 2025 and is expected to accelerate at a compelling compound annual growth rate of 15.90% during the forecast period from 2025 to 2035, with historical data anchored in 2023 and 2025 and 2025 positioned as the base year for estimation. Earth observation small satellites are compact, cost-efficient space systems engineered to capture high-resolution imagery and geospatial data for environmental monitoring, defense surveillance, disaster management, agriculture, urban planning, and climate intelligence. As governments and commercial entities alike seek to scale up real-time

+357 96 030922
info@marketpublishers.com

earth intelligence without incurring the capital intensity of traditional large satellites, small satellite constellations are increasingly being rolled out to fill this strategic gap. The market's expansion is being powered by declining launch costs, rapid advances in sensor miniaturization, and the growing appetite for persistent, data-rich earth observation capabilities.

Momentum across the market is being carried forward as satellite operators and data service providers double down on constellation-based deployment models to improve revisit rates and temporal resolution. Innovations in propulsion, onboard processing, and AI-enabled payloads are enabling small satellites to punch well above their weight, delivering near-real-time insights that were once the preserve of much larger platforms. At the same time, rising geopolitical tensions, climate volatility, and the need for transparent environmental data are prompting public agencies and defense organizations to scale up investments in earth observation infrastructure. While regulatory hurdles, orbital congestion, and data management complexity present operational challenges, sustained technological breakthroughs and private-sector participation continue to smoothen the market's growth trajectory throughout the 2025–2035 period.

The detailed segments and sub-segments included in the report are:

By Mass:

Mini Satellite (101–1200 kg)

Micro Satellite (11–100 kg)

Nano Satellite (1–10 kg)

By System:

Satellite Bus

Payloads

By Platform:

+357 96 030922
info@marketpublishers.com

Satellite-Based EO

UAV/Drone-Based EO

Ground-Based EO

Airborne EO

By Orbit Type:

Orbit Type

Medium Earth Orbit (MEO)

Geostationary Orbit (GEO)

By Technology:

Optical Imaging

Radar Imaging

Thermal Imaging

LiDAR Technology

By Application:

Environmental Monitoring

Disaster Management

Agriculture and Forestry

Urban Planning and Infrastructure

+357 96 030922
info@marketpublishers.com

Maritime Surveillance

Energy and Power Sector

Climate Change Research

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

Asia Pacific

China

India

Japan

+357 96 030922
info@marketpublishers.com

- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Nano satellites are expected to dominate the market over the forecast period, accounting for the largest share of deployed units. Their relatively low manufacturing costs, shorter development cycles, and compatibility with rideshare launch opportunities have made them the preferred choice for both commercial and academic missions. Nano satellites are being increasingly used in large constellations to deliver high revisit frequencies and scalable data collection, particularly for earth imaging, weather monitoring, and environmental surveillance. While mini and micro satellites continue to play a critical role in high-payload and specialized missions, nano satellites remain at the center of the market's volume-driven expansion story.

From a revenue standpoint, payload systems currently command the largest share of the Global Earth Observation Small Satellite Market. Advanced optical, multispectral, hyperspectral, and synthetic aperture radar payloads are the primary value drivers, as end users prioritize data quality, resolution, and analytical depth over platform size

+357 96 030922
info@marketpublishers.com

alone. Continuous innovation in sensor design, onboard data processing, and AI-driven analytics is pushing payload prices upward, thereby reinforcing their revenue leadership. Satellite bus systems, while essential for mission stability and longevity, are increasingly being standardized, which places greater commercial emphasis on differentiated payload capabilities.

North America continues to lead the Global Earth Observation Small Satellite Market, supported by a robust space ecosystem, strong defense spending, and the presence of leading satellite manufacturers and data analytics firms. Europe follows closely, driven by collaborative space programs, environmental monitoring initiatives, and growing commercial earth observation ventures. Asia Pacific is anticipated to be the fastest-growing region during the forecast period, as countries such as China, India, and Japan intensify investments in indigenous satellite capabilities, climate monitoring, and national security applications. Meanwhile, Latin America and the Middle East & Africa are steadily emerging as opportunity-rich markets, fueled by rising demand for agricultural intelligence, infrastructure monitoring, and disaster response solutions.

Major market players included in this report are:

Airbus Defence and Space

Maxar Technologies

Planet Labs PBC

BlackSky Technology Inc.

Spire Global Inc.

ICEYE Ltd.

Satellite Imaging Corporation

OHB SE

Thales Alenia Space

Ball Aerospace

+357 96 030922
info@marketpublishers.com

Lockheed Martin Corporation

Boeing Defense, Space & Security

Northrop Grumman Corporation

ISRO Commercial Arm (NSIL)

Surrey Satellite Technology Ltd.

Global Earth Observation Small Satellite Market Report Scope:

Historical Data – 2023, 2025

Base Year for Estimation – 2025

Forecast period - 2025-2035

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

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' 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 and countries in recent years and to forecast their values for the coming years. The report is structured to integrate both qualitative insights and quantitative analysis, offering a comprehensive view of the earth observation small satellite landscape across the regions covered. It delivers in-depth intelligence on market drivers, restraints, and emerging opportunities, alongside a detailed assessment of competitive positioning and system-level innovation strategies adopted by key players. By spotlighting micro-markets and future-ready investment avenues, the study equips stakeholders with actionable clarity to navigate the rapidly evolving space economy.

+357 96 030922
info@marketpublishers.com

Key Takeaways:

Market estimates and forecasts for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed geographical analysis with country-level insights across major regions.

Competitive landscape evaluation featuring leading market participants.

Strategic assessment of key business initiatives and future market approaches.

Analysis of the competitive structure and industry dynamics.

Demand-side and supply-side analysis of the global market.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

CHAPTER 4. GLOBAL EARTH OBSERVATION SMALL SATELLITE INDUSTRY ANALYSIS

CHAPTER 5. GLOBAL EARTH OBSERVATION SMALL SATELLITE MARKET SIZE & FORECASTS BY MASS 2025-2035

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 11. GLOBAL EARTH OBSERVATION SMALL SATELLITE MARKET SIZE & FORECASTS BY REGION 2025–2035

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 12. COMPETITIVE INTELLIGENCE

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Earth Observation Small Satellite Market Size Study & Forecast, by Mass (Mini Satellite (101–1200 kg), Micro Satellite (11–100 kg), Nano Satellite (1–10 kg)), System (Satellite Bus, Payloads), By Platform (Satellite-Based EO, UAV/Drone-Based EO, Ground-Based EO, Airborne EO), By Orbit Type (Orbit Type, Medium Earth Orbit (MEO), Geostationary Orbit (GEO)), By Technology (Optical Imaging, Radar Imaging, Thermal Imaging, LiDAR Technology), By Application (Environmental Monitoring, Disaster Management, Agriculture and Forestry, Urban Planning and Infrastructure, Maritime Surveillance, Energy and Power Sector, Climate Change Research) and Regional Forecasts 2025-2035

Product link: https://marketpublishers.com/r/G019B92C972EEN.html

Price: US$ 3,750.00 (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/G019B92C972EEN.html