

Global Onboard Satellites Edge Computing Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Onboard Satellites Edge Computing market size is expected to reach \$ 1727 million by 2032, rising at a market growth of 13.6% CAGR during the forecast period (2026-2032).

Onboard Satellite Edge Computing refers to the integration of computing, storage, and intelligent processing capabilities onto satellite platforms—including those in Low Earth Orbit (LEO), Medium Earth Orbit (MEO), or Geostationary Orbit (GEO). By performing real-time data processing, analysis, compression, and decision-making directly in space—proximate to the data sources (such as onboard sensors and communication payloads)—this approach transmits only valuable results or critical information back to Earth. Consequently, it drastically reduces the bandwidth consumption of the space-to-ground link and minimizes downlink latency. Its core technologies encompass high-performance onboard processors, FPGAs, AI inference chips, radiation-hardened storage units, and lightweight edge operating systems. Typical applications span the rapid processing of cloud imagery from meteorological satellites, target recognition for remote sensing satellites, intelligent beam resource scheduling for communication satellites, and data anomaly detection for scientific exploration satellites. Compared to the traditional paradigm of 'downloading all raw data to the ground for processing,' Onboard Satellite Edge Computing significantly accelerates mission response times, reduces reliance on ground stations, and facilitates inter-satellite collaborative processing; as such, it serves as a pivotal enabling technology for the future development of intelligent satellite constellations and space-based Internet of Things (IoT) networks.

This report studies the global Onboard Satellites Edge Computing demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Onboard Satellites Edge Computing, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Onboard Satellites Edge Computing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Onboard Satellites Edge Computing total market, 2021-2032, (USD Million)

Global Onboard Satellites Edge Computing total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Onboard Satellites Edge Computing total market, key domestic companies, and share, (USD Million)

Global Onboard Satellites Edge Computing revenue by player, revenue and market share 2021-2026, (USD Million)

Global Onboard Satellites Edge Computing total market by Type, CAGR, 2021-2032, (USD Million)

Global Onboard Satellites Edge Computing total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Onboard Satellites Edge Computing market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Airbus Defence and Space, EDGX, IBM, Palantir, Passengera, SkyServe, Space Compass, SpaceX, Synspective, Thales Alenia Space, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Onboard Satellites Edge Computing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Onboard Satellites Edge Computing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Onboard Satellites Edge Computing Market, Segmentation by Type:

Micro Edge Node (Compute Power: < 0.5 TOPS)

Small Edge Node (Compute Power: $0.5-5$ TOPS)

Standard Edge Node (Compute Power: $5-50$ TOPS)

High-Performance Edge Node (Compute Power: $50-500$ TOPS)

Global Onboard Satellites Edge Computing Market, Segmentation by Deployment:

Single-Satellite Edge Computing

Inter-Satellite Edge Computing

Satellite-to-Ground Edge Computing

Global Onboard Satellites Edge Computing Market, Segmentation by Application:

Remote Sensing and Earth Observation

Communications and IoT

Scientific Exploration

Defense and Security

Others

Companies Profiled:

Airbus Defence and Space

EDGX

IBM

Palantir

Passengera

SkyServe

Space Compass

SpaceX

Synspective

Thales Alenia Space

Tycho Space Technologies AS

Unibap Space Solutions

CASC

Key Questions Answered

1. How big is the global Onboard Satellites Edge Computing market?
2. What is the demand of the global Onboard Satellites Edge Computing market?
3. What is the year over year growth of the global Onboard Satellites Edge Computing market?
4. What is the total value of the global Onboard Satellites Edge Computing market?
5. Who are the Major Players in the global Onboard Satellites Edge Computing market?
6. What are the growth factors driving the market demand?

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