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# Global Onboard Satellites Edge Computing Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Onboard Satellites Edge Computing market size is predicted to grow from US$ 669 million in 2025 to US$ 1717 million in 2032; it is expected to grow at a CAGR of 14.4% from 2026 to 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.

United States market for Onboard Satellites Edge Computing is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through

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2032.

China market for Onboard Satellites Edge Computing is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Onboard Satellites Edge Computing is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Onboard Satellites Edge Computing players cover Airbus Defence and Space, EDGX, IBM, Palantir, Passengera, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the ?Onboard Satellites Edge Computing Industry Forecast? looks at past sales and reviews total world Onboard Satellites Edge Computing sales in 2025, providing a comprehensive analysis by region and market sector of projected Onboard Satellites Edge Computing sales for 2026 through 2032. With Onboard Satellites Edge Computing sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Onboard Satellites Edge Computing industry.

This Insight Report provides a comprehensive analysis of the global Onboard Satellites Edge Computing landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Onboard Satellites Edge Computing portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Onboard Satellites Edge Computing market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Onboard Satellites Edge Computing and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Onboard Satellites Edge Computing.

This report presents a comprehensive overview, market shares, and growth opportunities of Onboard Satellites Edge Computing market by product type, application, key players and key regions and countries.

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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)

Segmentation by Deployment:

Single-Satellite Edge Computing

Inter-Satellite Edge Computing

Satellite-to-Ground Edge Computing

Segmentation by Application:

Remote Sensing and Earth Observation

Communications and IoT

Scientific Exploration

Defense and Security

Others

This report also splits the market by region:

Americas

United States

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- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa

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Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Airbus Defence and Space

EDGX

IBM

Palantir

Passengera

SkyServe

Space Compass

SpaceX

Synspective

Thales Alenia Space

Tycho Space Technologies AS

Unibap Space Solutions

CASC

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## 11 KEY PLAYERS ANALYSIS

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Forecast by Application (2027-2032)

Figure 83. GCC Countries Onboard Satellites Edge Computing Market Size 2027-2032 ($ millions)

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