

Satellite Bus Market Size Expected to Reach \$23.4 Billion by 2033

Satellite bus industry was valued at \$14.1 billion in 2023, and is estimated to reach \$23.4 billion by 2033, growing at a CAGR of 5.4% from 2024 to 2033.

WILMINGTON, DE, UNITED STATES, July 9, 2025 /EINPresswire.com/ -- By subsystem, the structure and mechanism segment dominated the global market in 2023, in terms of revenue, and is expected to lead the market throughout the forecast period. By application, the communication segment dominated the global market in 2023. By satellite size the small segment dominated the global market in 2023. Region wise, the North America region is the highest revenue contributor, followed by Asia-Pacific, Europe and LAMEA.

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A satellite bus refers to standardized, modular framework or platform that provides essential support systems for the operation of a satellite. It serves as the foundation for a satellite's subsystems, including power, propulsion, thermal control, communication, and attitude control, allowing the payload such as scientific instruments, cameras, or communication transponders to function effectively. The demand for satellite bus is growing due to companies such as SpaceX (Starlink), OneWeb, and Amazon (Project Kuiper) are deploying large constellations of small satellites for global broadband coverage and for the development of internet services, these constellations rely on standardized satellite buses. Standardized satellite buses reduce development time and development costs compared to custom-built satellites, additionally governments around the world, including the U.S., China, India, and other European countries, are investing heavily in space programs further driving the market growth. Additionally, there is growing demand for satellite buses from variety of industries such as telecommunications, Earth observation, navigation, and scientific research.

There is growth in satellite launches in recent years due to rise in technological advancements, rise in demand for connectivity, and emergence of private aerospace and defence companies. Furthermore, rise of smaller, cost-effective satellites such as CubeSats has made it easier for startups, universities, and emerging countries to join space exploration projects, which is further driving the market for satellite bus. In addition, rise of mega-constellations projects, such as SpaceX's Starlink, Amazon's Project Kuiper, and OneWeb, aims to provide high-speed internet access globally. These projects require frequent launch of thousands of satellites, further driving

the demand for satellite launches. In addition, governments globally are deploying more satellites for defence and surveillance operations.

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The [satellite bus market](#) is segmented into subsystem, application, satellite size, and region. By subsystem, the market is segregated into structures & mechanisms, thermal control, electric power system, attitude control system, propulsion, telemetry tracking command, and flight software. By application, it is segregated into Earth observation & meteorology, communication, scientific research & exploration, surveillance & security, mapping, and navigation. By satellite size, it is segregated into small, medium, and large. Region-wise, the global satellite bus market has been studied across North America, Europe, Asia-Pacific, and LAMEA.

Factors such as increased investments by government and space agencies, increase in number of satellite launches, and new product launches in the satellite manufacturing market and launch systems, drive the growth of the satellite bus market. However, limitations of small satellites regarding payload accommodation and stringent government regulations for implementation and use of satellites are factors that hamper the growth of the satellite bus market. Also, increase in incorporation of new technologies and advancements in satellite mission technologies create opportunities for the satellite bus market forecast.

In addition, the satellite bus market analysis is highly competitive, with several key players dominating the industry. Prominent manufacturers focus on innovation, product differentiation, and strategic partnerships to maintain their market positions. Market leaders include companies such as Airbus S.A.S, Ball Corporation, Israel Aerospace Industries Ltd. (IAI), ISRO, Lockheed Martin Corporation, Mitsubishi Electric Corporation, Northrop Grumman Corporation, Sierra Nevada Corporation, Thales Group, and The Boeing Corporation.

There is growing progress in satellite technology, as companies are incorporating modern imaging techniques, which is expected to improve satellite imagery and create lucrative opportunities in the satellite bus market. Some of the newly introduced technologies include electric propulsion technology, high-resolution cameras, advanced remote sensing technology, next generation GPS satellites, light detection and ranging (LIDAR) technology, hyperspectral sensors, and multispectral sensors.

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Also, the most recently developed technologies such as aerospace digital signal processor and large-scale anti-radiation field programmable gate array are projected to make real-time image processing easy and overcome the limitation in satellite imaging. Similarly, satellite imagery is expected to be the preferred choice in almost all commercial applications, which is anticipated to

provide massive opportunities for the market to grow. Furthermore, development in data transmission capabilities, improvement in geospatial processing, and scalable cloud-based platforms are expected to provide new growth opportunities in satellite bus market share analysis.

KEY FINDINGS OF THE STUDY

By subsystem, the flight software segment is anticipated to exhibit significant growth in the satellite bus market size in the near future.

By application, the surveillance and mapping segment is anticipated to exhibit significant growth in the satellite bus market trends in the near future.

By satellite size, the small segment is anticipated to exhibit significant growth in the satellite bus market growth in the near future.

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