

Navigation Satellite System (GNSS) Market Report and Forecast 2025-2034

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Report description:

The global navigation satellite system (GNSS) market was valued at USD 175.20 Billion in 2024. The industry is expected to grow at a CAGR of 9.30% during the forecast period of 2025-2034 to attain a valuation of USD 426.32 Billion by 2034.

Increasing Application of GNSS in Surveying to Propel the Market Growth of Navigation Satellite System (GNSS)

Based on the application, the surveying segment is supporting the market growth of global navigation satellite system (GNSS). The extensive use of GNSS by land surveyors and the ability of advanced satellites to provide 24-hour services are leading to the expansion of the market globally. The system can operate in different environments and provides centimetre-level accurate information about the Earth's surface locations using satellite signals. The use of GNSS helps expand the project size as it allows to conduct surveys across large tracts of land. In addition, the rising inclination of surveyors towards global navigation satellite systems due to their cost-effectiveness as they require less labour to complete large-scale projects is accelerating the market development. Further, the increasing use of unmanned or autonomous vehicles to carry out search or rescue operations is likely to aid the global navigation satellite system (GNSS) market growth over the forecast period.

Region-wise, North America accounts for a significant share of the market due to the early adoption of advanced technology in the region. Meanwhile, the Asia Pacific is expected to witness a healthy growth during the forecast period due to factors like the increasing investments in the development of 5G technology, growing penetration of smart devices, and increasing use of autonomous vehicles in countries like India and China.

Market Segmentation

The global navigation satellite system (GNSS) is a satellite constellation that orbits the Earth to transmit valuable data to GNSS receivers. The system is used for positioning, navigation or for satellite tracking. It plays a crucial role in applications ranging from communication systems to mobile navigation including Google Maps. Examples of GNSS include the USA's NAVSTAR Global Positioning System (GPS), Europe's Galileo, Russia's GLONASS, and China's BeiDou Navigation Satellite System.

The global navigation satellite system (GNSS) market, by type, is divided into:

- Global Constellations
- Regional Constellations
- Satellite-based Augmentation

Based on application, the market is segmented into:

- Rail
- Aviation
- Maritime
- Surveying
- Time Synch
- Agriculture
- LBS
- Road
- Others

The regional markets for navigation satellite system (GNSS) can be divided into:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Growing Importance of GNSS in Various Applications to Drive the Market Growth

The increasing use of global navigation satellite system as a standard navigation system that offers global positioning for smartphones and road vehicles, among others, is leading to the market expansion. With the advancements in information and mobile phone technology, there has been a dramatic growth in the number of applications that use PVT (Position, Velocity and Time) services offered by space-based navigation systems. The use of GNSS in smart agriculture and smart high-speed rail in countries such as China is bolstering the market growth. The COVID-19 pandemic has also aided the global navigation satellite system (GNSS) market due to the increased use of robotics and big data to fight against COVID-19 in countries such as Taiwan, Australia, and China. The government initiatives towards strengthening and expanding the usage of satellite-based navigation systems are playing a critical role in the market growth. For instance, the Government of India has established independent Satellite-based augmentation systems- Navigation with Indian Constellation (NavIC) and GPS Aided Geo Augmented Navigation (GAGAN)- for the Indian airspace in order to strengthen the Government's initiative of Atmanirbhar Bharat. In addition, the government's SATNAV policy of 2021 is aimed at the progressive evolution of satellite-based navigation and augmentation services, with the focus on enhancing the compatibility of Indian satellite navigation and augmentation signals with other GNSS/SBAS signals. Moreover, the expansion of space-enabled applications and the increasing research activities are likely to propel the market for global navigation satellite system further. Technological advancements such as the development of 5G and the growing utilisation of autonomous vehicles are expected to augment the market growth over the forecast period.

Key Players in the Global Market for Navigation Satellite System (GNSS)

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The report gives a detailed analysis of the following key players in the global navigation satellite system (GNSS) market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Qualcomm Technologies, Inc.
- Cobham Limited
- Trimble Inc.
- Collins Aerospace
- Broadcom Inc
- Hexagon AB
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

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