Satellite Antenna Market is Booming Worldwide to Show Significant Growth Over the Forecast 2023 to 2033

Satellite Antenna Market by Technology Type, Frequency Band, Application, End User, Orbit Type : Global Opportunity Analysis and Industry Forecast, 2020 - 2033.

WILMINGTON, DE, UNITED STATES, October 14, 2025 /EINPresswire.com/ -- The global satellite antenna market size generated $2.8 billion in 2022 and is anticipated to generate $18.1 billion by 2033, witnessing a CAGR of 13.20% from 2023 to 2033.

The growth of the global satellite antenna market is driven by factors such as increase in demand for internet connectivity, rise of in-flight, maritime & land mobile connectivity, and investments in SATCOM infrastructure and ground stations. However high costs associated with phased array and electronically steered antennas, and regulatory barriers and restrictions on placement/installation of antennas hamper the growth of the market. On the contrary, development of flat panel, interoperable, & multi-orbit antennas, and adoption of electronically steered antennas (ESA) in aerospace, defense are expected to offer remunerative opportunities for the expansion of the satellite antenna market during the forecast period.

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The global satellite antenna market is primarily propelled by growing demand for internet connectivity, expanding applications in in-flight, maritime, and land mobile communications, as well as increased investments in SATCOM infrastructure and ground stations. However, challenges such as the high costs of phased array and electronically steered antennas, along with regulatory barriers and restrictions on antenna placement and installation, impede market growth. Conversely, opportunities lie in the development of flat panel, interoperable, and multi-orbit antennas, as well as the adoption of electronically steered antennas (ESA) in aerospace and

defense sectors, promising lucrative prospects for key market players in the forecast period.

Electronically Steered Antenna (ESAs) are an attractive option for aerial and maritime platforms due to their fast tracking, rapid beam switching, and flexible beam shaping capabilities. This makes them well-suited for highly dynamic environments. In aerospace satellite antenna industry, ESA adoption is driven by the need for continuous, high-throughput inflight connectivity. ESAs maintain links with multiple satellites during flight using software-controlled beam steering. Players such as Kymeta, Isotropic, Alcan Systems supply aero ESA products. For defense applications, ESAs provide electronic warfare capabilities such as jam resistance, nulling interference, and resilient communications. General Dynamics and L3Harris are major ESA suppliers to military customers.

Moreover, ESAs are deployed on unmanned aerial vehicles (UAVs) to meet the demand for beyond line-of-sight control, sensor data backhaul, and in-flight refueling. ESAs have been adopted by maritime, land, and airborne sectors due to their performance. For instance, in November 2023, SWISSto12, a leading European aerospace company, collaborated with Thales, a critical electronics company, to develop active electronically steerable antennas (AESAs) for airborne, land, and maritime platforms. The AESAs are expected to use innovative 3D-printed miniature horn antennas instead of traditional patch antennas.

These 3D-printed antenna apertures are more efficient and have better overall performance (gain, axial ratio & bandwidth over scan volume) than patch antennas. These features are essential to maintaining wide-angle scanning capabilities in AESAs. Therefore, ESAs have gained adoption across aerial and maritime platforms given their advantages for mobility, tactical communications, and multi-beam connectivity. This makes ESAs a high-growth opportunity area within the defense and aerospace satellite antenna industry. The satellite antenna market forecast offers valuable insights into future satellite antenna market share, trends, growth projections, and emerging opportunities.

Countries considered under the Europe satellite antenna market include France, Germany, Italy, Spain, UK, Russia, and rest of Europe. The growth in satellite antenna market is influenced by the presence of key players in the UK, France, Germany, and Nordic countries, driven by innovative technology and space initiatives. Europe represents one of the major regional markets for satellite antennas globally. The presence of companies such as Oxford Space Systems involved in novel antenna development boosts the development of satellite antennas in the UK. A UK-based satellite manufacturing facility of OneWeb also requires investments in ground systems and antennas to support its LEO constellation. Government investments in improved satcom and space situational awareness capabilities are further drivers of the satellite antenna market. The satellite antenna market analysis reveals a steady increase in demand, driven by the expanding applications of satellite communication across diverse sectors. The satellite antenna market

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By region, North America held the highest market share in terms of revenue in 2022, accounting for more than three-fifths of the satellite antenna market revenue, and is likely to dominate the market during the forecast period, as there is an early adoption of satellite antennas from military and defense agencies, government organizations, and the expansion of consumer broadband, particularly driven by initiatives like SpaceX's Starlink. However, the LAMEA region is expected to witness the fastest CAGR of 16.4% from 2023 to 2033, owing to extensive and often remote or underserved areas, where satellite communication, enabled by satellite antennas, plays a vital role in providing internet connectivity, telecommunication services, and television broadcasting.

Leading Market Players:

Kymeta Corporation
L3Harris Technologies, Inc.
Viasat, Inc.
Honeywell International Inc.
CPI International Inc.
Thales
Intellian Technologies, Inc.
GILAT SATELLITE NETWORKS
Hughes Network Systems, LLC
Cobham Limited
Airbus DS Government Solutions Inc.

The report provides a detailed analysis of these key players of the satellite antenna industry. These players have adopted various strategies such acquisition, contract, product launch, and others to increase their market penetration and strengthen their position in the industry. The report is helpful in determining the business performance, operating segments, developments, and product portfolios of every market player.

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