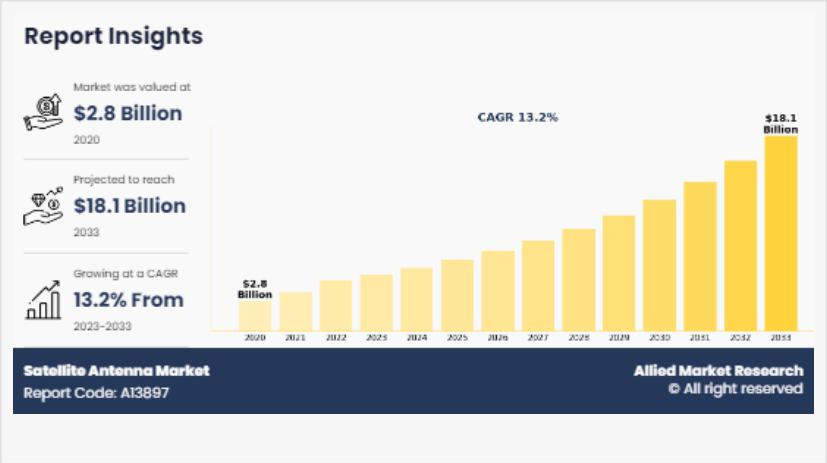
Satellite Antenna Market to reach $18.1 Billion by 2033 | Trends, Demand and Growth Opportunities

Surge in internet connectivity demands, alongside the growth of in-flight, maritime, land mobile connectivity, coupled with investments in SATCOM infrastructure



WILMINGTON, DE, UNITED STATES, July 15, 2025 /EINPresswire.com/ -- 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 global satellite antenna market is experiencing growth, primarily driven by increasing demand for reliable internet connectivity, expanding applications in in-flight, maritime, and land-mobile communication, and rising investments in SATCOM infrastructure and ground stations. However, market growth is challenged by the high costs of phased array and electronically steered antennas, as well as regulatory hurdles related to antenna placement and installation. Despite these barriers, the development of advanced technologies such as flat-panel, interoperable, and multi-orbit antennas along with the growing adoption of electronically steered antennas (ESA) in aerospace and defense sectors presents significant opportunities for market expansion over the forecast period.

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The global satellite antenna market is primarily driven by the increasing demand for seamless internet connectivity, expanding use in in-flight, maritime, and land-mobile communications, and rising investments in SATCOM infrastructure and ground stations. However, market growth is hindered by the high cost of phased array and electronically steered antennas (ESAs), as well as regulatory constraints related to antenna placement and installation. On the upside, significant opportunities lie in the advancement of flat-panel, interoperable, and multi-orbit antenna

technologies. Additionally, the growing adoption of ESAs in the aerospace and defense sectors is expected to unlock lucrative prospects for industry players over the forecast period.

Electronically Steered Antennas (ESAs) are particularly well-suited for aerial and maritime platforms due to their capabilities in fast satellite tracking, rapid beam switching, and flexible beam shaping features essential in dynamic environments. In the aerospace sector, the demand for continuous, high-throughput in-flight connectivity is accelerating ESA adoption. These antennas can maintain stable connections with multiple satellites mid-flight through software-controlled beam steering. Leading companies such as Kymeta, Isotropic Systems, and Alcan Systems are actively supplying ESA solutions for aviation applications.

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In the defense domain, ESAs enhance operational resilience by supporting electronic warfare functionalities, including jamming resistance, interference nulling, and secure, resilient communications. Key ESA suppliers to military customers include General Dynamics and L3Harris. Furthermore, ESAs are being integrated into unmanned aerial vehicles (UAVs) to support beyond line-of-sight (BLOS) control, real-time sensor data backhaul, and in-flight refueling operations. Their adaptability and high-performance capabilities have led to widespread deployment across maritime, airborne, and land-based platforms.

For example, in November 2023, European aerospace leader SWISSto12 partnered with Thales to develop active electronically steerable antennas (AESAs) for cross-domain use. These next-generation AESAs are expected to incorporate cutting-edge 3D-printed miniature horn antennas—an innovative alternative to traditional patch antenna designs—aiming to enhance performance while reducing size and weight.

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.

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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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