

Global Satellite Flat Panel Antenna Market 2024

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Abstracts

The technology of flat panel antennas is witnessing significant interest from both governmental and commercial stakeholders, spurred by the growing need for continuous communication capabilities that remain unaffected by geographical location. Despite advancements in telecommunications technology offering numerous solutions, conventional systems often face criticism for their inadequacy in certain mobile applications. Flat panel antennas, however, represent a promising alternative, designed to deliver stable and sufficient signal strength essential for mobile applications and extending services to remote areas. This technology facilitates satellite internet access, eliminating the dependency on terrestrial infrastructure for internet connectivity. The global space economy's expansion is largely driven by the escalating demand for satellite-based connectivity services, encompassing communication, navigation, and Earth observation applications.

Anticipated to cater to a diverse array of end-users including automotive, aviation, defense and government, enterprise, maritime, oil and gas, and space sectors, flat panel antenna technology is carving out a distinct market within the satellite connectivity domain. Specifically, the defense sector within the aviation segment reported a revenue of \$2.3 billion in 2023, with projections suggesting a growth at a Compound Annual Growth Rate (CAGR) of 12.5% from 2024 to 2029, culminating in a market value of \$5.3 billion by 2029. Satellite flat panel antennas are crucial for military, defense, and space applications, demanding uninterrupted, reliable connectivity over vast distances without signal degradation. The role of satellite internet is particularly significant for government applications, with numerous governments worldwide engaging in contracts and strategic alliances with flat panel antenna providers to facilitate internet access in isolated and challenging locations.

The market for mechanically steered antennas, valued at USD 2.9 billion in 2023, is projected to reach USD 6.4 billion by 2029, growing at a CAGR of 12.1% during the

forecast period. Mechanically steered antennas, which adjust physically to maintain a link with satellites without the need for electronic beam steering, offer the advantage of low power consumption albeit at the cost of increased bulkiness compared to their electronically steered counterparts.

North America is poised to dominate the market share in 2023, attributed to the concentration of relevant companies in the region and their ongoing developments. The satellite flat panel antenna market in North America is estimated at USD 2.8 billion in 2023, with expectations to grow to USD 7.4 billion by 2029, reflecting a CAGR of 14.8%. This dominance is supported by substantial investments and anticipated revenue generation, particularly from the United States and Canada. These countries are actively investing in satellite-driven internet connectivity, favoring the installation of flat panel over traditional parabolic antennas on various vehicles. These installations aim to electronically track satellites with stationary units, minimizing moving parts and thus reducing potential failure points while ensuring adequate bandwidth. With the companies in the region actively engaged in product and solution development to meet market demands, significant growth in revenue is anticipated in the forthcoming years. Furthermore, the European region is expected to exhibit the highest growth rate during the forecast period, indicating a broadening scope for flat panel antenna technology across the globe.

This comprehensive industry report provides market estimates and forecasts, accompanied by a detailed examination of the type, end-user, frequency, and region aspects. It delivers a quantitative analysis of the market, empowering stakeholders to leverage existing market opportunities. Furthermore, the report identifies key segments for potential opportunities and strategies, drawing insights from market trends and the approaches of leading competitors.

The global baby bottle market has been extensively analyzed by categorizing it according to various sub-segments in order to provide accurate forecasts of industry size and assess trends within specific areas.

The global market for satellite flat panel antenna can be segmented by type: mechanically steered antenna, electronically steered antenna, hybrid. Mechanically steered antenna was the highest contributor to the global satellite flat panel antenna market, with 46.5% share in 2023. Going forward, the electronically steered antenna segment is projected to witness the highest CAGR during the forecast period.

Satellite flat panel antenna market is further segmented by end-user: defense, aviation,

automotive, maritime, others. Defense was the highest contributor to the global satellite flat panel antenna market, with 37.8% share in 2023. Going forward, the aviation segment is projected to witness the highest CAGR during the forecast period.

Based on frequency, the satellite flat panel antenna market is segmented into: L and S band (1 GHz – 4 GHz), C and X band (4-12GHz), Ku, K, and Ka band (13 GHz – 40 GHz). Ku, K, and Ka band (13 GHz – 40 GHz) was the largest revenue contributor to the global satellite flat panel antenna market in 2023 and is anticipated to show the highest growth rate during the forecast period.

On the basis of region, the satellite flat panel antenna market also can be divided into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. North America was the highest contributor to the global satellite flat panel antenna market, with 45.3% share in 2023. Going forward, Europe is projected to witness the highest CAGR during the forecast period.

The report explores the recent developments and profiles of key vendors in the Global Satellite Flat Panel Antenna Market, including Inmarsat Global Ltd., Intelsat S.A., L3Harris Technologies, Inc., Hanwha Systems Co., Ltd., ST Engineering iDirect, Inc., Ball Corporation, Space Exploration Technologies Corp., Gilat Satellite Networks Ltd., Eutelsat Communications SA, Carlisle Companies Incorporated, Thinkom Solutions, Inc., Kymeta Corporation, C-Com Satellite Systems Inc., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Why Choose This Report

Gain a reliable outlook of the global satellite flat panel antenna market forecasts from 2024 to 2030 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

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Market Segments Covered in Global Satellite Flat Panel Antenna Industry Analysis:

i.) Type

Mechanically steered antenna

Electronically steered antenna

Hybrid

ii.) End-user

Defense

Aviation

Automotive

Maritime

Others

iii.) Frequency

L and S band (1 GHz – 4 GHz)

C and X band (4-12GHz)

Ku, K, and Ka band (13 GHz – 40 GHz)

iv.) Region

North America

Europe

Asia-Pacific

MEA (Middle East and Africa)

Latin America

Contents

PART 1. INTRODUCTION

- 1.1 Description
- 1.2 Objectives of The Study
- 1.3 Market Segment
- 1.4 Years Considered for The Report
- 1.5 Currency
- 1.6 Key Target Audience

PART 2. RESEARCH METHODOLOGY

- 2.1 Primary Research
- 2.2 Secondary Research

PART 3. EXECUTIVE SUMMARY

PART 4. MARKET OVERVIEW

- 4.1 Introduction
- 4.2 Drivers
- 4.3 Restraints

PART 5. GLOBAL SATELLITE FLAT PANEL ANTENNA MARKET BY TYPE

- 5.1 Mechanically steered antenna
- 5.2 Electronically steered antenna
- 5.3 Hybrid

PART 6. GLOBAL SATELLITE FLAT PANEL ANTENNA MARKET BY END-USER

- 6.1 Defense
- 6.2 Aviation
- 6.3 Automotive
- 6.4 Maritime
- 6.5 Others

PART 7. GLOBAL SATELLITE FLAT PANEL ANTENNA MARKET BY FREQUENCY

- 7.1 L and S band (1 GHz – 4 GHz)
- 7.2 C and X band (4-12Ghz)
- 7.3 Ku, K, and Ka band (13 GHz – 40 GHz)

PART 8. GLOBAL SATELLITE FLAT PANEL ANTENNA MARKET BY REGION

- 8.1 North America
- 8.2 Europe
- 8.3 Asia-Pacific
- 8.4 MEA (Middle East and Africa)
- 8.5 Latin America

PART 9. COMPANY PROFILES

- 9.1 Inmarsat Global Ltd.
- 9.2 Intelsat S.A.
- 9.3 L3Harris Technologies, Inc.
- 9.4 Hanwha Systems Co., Ltd.
- 9.5 ST Engineering iDirect, Inc.
- 9.6 Ball Corporation
- 9.7 Space Exploration Technologies Corp.
- 9.8 Gilat Satellite Networks Ltd.
- 9.9 Eutelsat Communications SA
- 9.10 Carlisle Companies Incorporated
- 9.11 Thinkom Solutions, Inc.
- 9.12 Kymeta Corporation
- 9.13 C-Com Satellite Systems Inc.

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