

Flat Panel Antenna Market By Type (Electronically steered, Mechanically steered), By Operating Frequency (C and X band, Ku K and Ka band), By End-Use Vertical (Aviation, Telecommunications, Military, Commercial, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

The global flat panel antenna market was valued at \$440 million in 2021, and is projected to reach \$5,000 million by 2031, registering a CAGR of 28% from 2022 to 2031. The mechanically steered segment was the highest revenue contributor to the market, and is expected to grow with impressive CAGR.

One type of directional antenna is a flat panel antenna, which exclusively transmits and receives radio signals in one direction. The signal can spread out across a wider area thanks to its wider beam. Today, flat-panel antennas are being developed for maritime satellite communications applications in addition to being utilised for military, naval, and commercial aircraft radar. The early years after the discovery of satellites saw a general trend toward building and developing larger spacecraft with enormous subsystems, which improved the satellites' capability and efficiency.

Some factors, technology breakthroughs in satellite production and launch are the main drivers of the space industry's development. Satellite technology has made it possible for a global communications satellite sector to contribute to closing the global coverage gap. The growing public awareness of technological advancements in satellite and space exploration has fuelled the demand for flat panel antennas. Application of ultra-thin flat panel antenna in numerous functions is propelling this market growth. The market may be hampered by a lack of experienced workers and costly development and maintenance expenses for the infrastructure necessary to support flat panel antennas. Lucrative market opportunity is being created by the increasing usage of flat panel antennas in numerous end-use verticals.

The overall global flat panel antenna market is bifurcated into type, operating frequency and end-use verticals. The global flat panel antenna market research is segmented into type that is furthermore divided into electronically steered and mechanically steered. On the basis of operating frequency, the market is bifurcated into C and X band and Ku, K and Ka band. In terms of

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end-use verticals as segment can be categorized into aviation, telecommunications, military, commercial and others.[] Region-wise, the Flat Panel Antenna market trends are analyzed across North America, Europe, Asia-Pacific, and LAMEA. North America was the highest revenue contributor, accounting for the maximum share during the forecast period. Asia-Pacific is fastest growing region, and is expected to rise with impressive CAGR.[]The key players operating in the market[]include ALCAN Systems GmbH, C-COM Satellites, China Starwin Science & Technology Co.,Ltd, Cobham Aerospace Communications, Gilat Satellite Networks, Hanwha Phasor (Hanwha Group), Isotropic Systems Limited, Kymeta Corporation, L3Harris Technologies, Inc., MTI Wireless Edge, NXT Communications, OneWeb, RadioWaves, SatPro Tech, ST Engineering, ThinKom Solutions and TTI Norte.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the flat panel antenna market analysis from 2021 to 2031 to identify the prevailing flat panel antenna market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the flat panel antenna market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global flat panel antenna market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type

- Electronically steered
- Mechanically steered

By Operating Frequency

- C and X band
- Ku K and Ka band

By End-Use Vertical

- Aviation
- Telecommunications
- Military
- Commercial
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- Italy
- France
- Spain
- U.K.
- Russia
- Rest of Europe
- Asia-Pacific
- China

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- India
- Japan
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- Hanwha Phasor
- TTI Norte
- L3Harria Technologies
- Ball Aerospace
- RadioWaves
- SatPro Tech
- NXT Communications
- ALCAN Systems
- C-COM Satellites

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