

Satellite Flat Panel Antenna Market - A Global and Regional Analysis: Focus on Application, Steering Mechanism, Type, Frequency Band, and Country - Analysis and Forecast, 2023-2033

<https://marketpublishers.com/r/SC17B8510BBFEN.html>

Date: June 2023

Pages: 269

Price: US\$ 5,500.00 (Single User License)

ID: SC17B8510BBFEN

Abstracts

Introduction to Global Satellite Flat Panel Antenna Market

A satellite flat panel antenna is a type of directional antenna that focuses its radio signals in a specific direction while providing a wider beam compared to traditional dish antennas. This broader beam enables the antenna to cover a larger area with its signals. It includes a variety of tasks such as receiving and transmitting signals, tracking satellites, facilitating communication, enabling data transfer, ensuring reliable connectivity, and supporting satellite-based services such as television broadcasting and internet access. The global satellite flat panel antenna market is driven by several factors, including the rising demand for high-speed (5G/6G) wireless connectivity, increasing demand for multi-orbit antennas, and advancements in proprietary manufacturing technologies. The application of the global satellite flat panel antenna market is in various fields such as aviation, defense and government, maritime, and telecom. Satellite flat panel antennas enable faster data transmission rates, enhanced network capacity, and reliable and high-speed connectivity in demanding operational scenarios, allowing military personnel to maintain effective communication even in remote and challenging locations.

Market Introduction

Antenna designs have undergone significant evolution and have found applications across diverse fields. Ongoing advancements have enhanced their performance and utility. To ensure efficient evaluation of these designs, effective testing methods are

vital. With the rise of Internet of Things (IoT) devices and the emergence of smart cities, flat panel antennas enable seamless connectivity and data exchange among devices, facilitating efficient infrastructure management and enhancing the quality of life.

Currently, the trend toward more compact, scalable lighter, and beamforming antenna demonstrates the industry's commitment to improving performance, efficiency, and flexibility. Electronically steered flat panel antennas play a crucial role in maximizing satellite bandwidth efficiency and addressing weight considerations, particularly for mobility applications. In the coming decade, these antennas are expected to dominate the maritime and land-mobile sectors due to their lightweight design and simplified installation procedures. Meanwhile, mechanically steered antennas currently maintain a competitive edge in the aeronautical industry, benefitting from their early market presence and meeting the stringent performance requirements specific to this sector.

The deployment of satellite mega-constellations and the potential to provide global broadband coverage in remote areas have a positive impact on the global satellite flat panel antenna market. Several organizations, research institutes, and government agencies are working to introduce newer technologies into the global satellite flat panel antenna market.

In recent years, satellite flat panel antenna has registered an exponential surge in demand from the defense and government industry, with high demands for secure communications, surveillance, reconnaissance, and intelligence gathering. Additionally, the global satellite flat panel antenna market is expected to experience significant growth in the coming years, driven by the emergence of satellite mega-constellations deployed by prominent companies such as OneWeb, SpaceX, and Amazon's Project Kuiper. They focus on deploying thousands of satellites into orbit, creating a network that enables global connectivity. For instance, in February 2023, OneWeb and Intelsat successfully completed inflight testing of a hybrid low Earth orbit (LEO) and geostationary (GEO) inflight connectivity solution. The tests were conducted on an Intelsat's Bombardier CRJ-700 regional jet fitted with the new electronically steered array (ESA) antenna, which has been built in collaboration with Stellar Blu and OneWeb. This is the first time LEO and GEO satellite connectivity has been seamlessly switched in flight.

Market Segmentation:

Segmentation 1: by Application

Automotive

Aviation

Defense and Government

Enterprise

Maritime

Telecom

Oil and Gas

Space

Defense and Government Application to Continue its Dominance as the Leading Application Segment

The global satellite flat panel antenna market is led by the defense and government industry, with a 25.19% share in 2023. Satellite flat panel antennas find application in military/defense sectors, catering to the needs of reliable connectivity over long distances without signal interruptions or losses. They can be deployed on vehicles, aircraft, and ships, providing real-time data transfer, voice communication, and other critical services for situational awareness, command and control, and coordination between forces.

Satellite flat panel antennas are revolutionizing the broadband connectivity landscape by enabling high-speed internet access of up to 400Mbps through low Earth orbit (LEO) and medium Earth orbit (MEO) satellites. The advancements in satellite technology, coupled with the beamforming capabilities of these antennas, are propelling the demand for flat panel antennae. It is expected that the sales of satellite flat panel antennas will continue the same trend in the coming years and contribute significantly to the growth of the global satellite flat panel antenna market during the forecast period. For instance, in September 2021, the Kymeta Corporation launched the u8 MIL hybrid terminal, a military communications solution incorporating Kymeta's software-defined, electronic beam-steering technology. The terminal is designed to be rugged and has a low-profile form factor, making it easy to mount on various military vehicles and vessels. In

addition, it enables reliable and high-speed connectivity in demanding operational scenarios, allowing military personnel to maintain effective communication even in remote and challenging locations.

Segmentation 2: by Steering Mechanism

Electronically Steered Antenna

Mechanically Steered Antenna

Hybrid

Electronically Steered Antenna to witness the highest growth between 2023 and 2033.

The global satellite flat panel antenna market is expected to be dominated by the electronically steered antenna segment in 2023, with a 40.0% share in terms of revenue. Ongoing advancements in technology, such as the integration of advanced semiconductor components, improved power efficiency, and enhanced beamforming, are the factors driving the adoption of electronically steered antennas across various industries.

These antennas are ideal for applications that require high precision and fast response times, such as military communications and weather forecasting. For instance, in March 2023, the Space Development Agency (SDA) of the Pentagon awarded a \$5 million contract to CesiumAstro, a manufacturer of advanced aerospace communications systems, to develop L band active electronically steered antennas (AESA) that are compatible with the Link 16 tactical data network, a standardized communication system employed by the U.S., North Atlantic Treaty Organization (NATO), and Coalition forces to facilitate the transmission and exchange of real-time tactical information.

Segmentation 3: by Type

Flat Panel Antenna for Satellite Communication (Satcom)

Flat Panel Antenna for Terrestrial Communication

Flat Panel Antenna for Satellite Communication (Satcom) to Witness the Highest

Growth between 2023 and 2033

The global satellite flat panel antenna market is expected to be dominated by flat panel antenna for satellite communication (Satcom) in 2023, with a 53.46% share in terms of revenue. The growing demand for high-speed broadband connectivity and reliable communication services is driving the adoption of flat panel antennas in satellite communication.

In the satellite communications industry, most flat panel antennas are waveguide-based, employing either horn or slot array antennas with mechanical steering, printed circuit board (PCB) antennas, or active electronically steered arrays. For instance, C-COM Satellite Systems Inc, a global provider of mobile auto-deploying satellite antenna systems, is directing its efforts toward developing a novel modular and cost-effective Ka band antenna tailored for the next generation of mobile satellite communications. This antenna will be designed to operate within the Ka band frequency range and possess conformal properties.

Segmentation 4: by Frequency Band

L and S Band (1 GHz – 4 GHz)

C and X Band (4 GHz – 12 GHz)

Ku, K, and Ka Band (13 GHz – 40 GHz)

Ku, K, and Ka Band (13 GHz – 40 GHz) to Witness the Highest Growth between 2023 and 2033

The global satellite flat panel antenna market is expected to be dominated by Ku, K, and Ka bands (13 GHz – 40 GHz) in 2023, with a 50.40% share in revenue due to the rising demand for new and advanced high-throughput satellite services.

Advancements in satellite technology, such as the deployment of high-capacity satellites and advanced modulation techniques, have increased the capabilities and efficiency of the Ku, K, and Ka bands. For instance, in March 2022, Intellian Technologies unveiled the manufacturing plan of phased array flat panel antennas designed for Ku and Ka band low Earth orbit (LEO) and medium Earth orbit (MEO) satellite networks. Intellian has developed electronically steered antennas (ESA) to

deliver exceptional performance. These antennas leverage Intellian's extensive experience and expertise in advanced antenna design, manufacturing, and reliable connectivity with non-geostationary satellites orbit (NGSO). The ground-breaking design of these antennas incorporates Intellian's leading phased array chipset, structure, and software, seamlessly integrated into a modular system that enables efficient production and worldwide distribution of this innovative ESA technology.

Segmentation 5: by Region

North America - U.S. and Canada

Europe - U.K., Germany, France, Russia, and Rest-of-Europe

Asia-Pacific - Japan, India, China, South Korea, and Rest-of-Asia-Pacific

Rest-of-the-World - Middle East and Africa and South America

North America was the highest-growing market among all the regions, registering a CAGR of 14.77%. North America is anticipated to gain traction in terms of satellite flat panel antenna production owing to the presence of a large number of satellite flat panel antenna manufacturers such as ThinKom Solutions, Inc., Kymeta Corporation, NXTCOMM, and Starlink (Space X). Moreover, favorable government regulatory policies are also expected to support the growth of the satellite flat panel antenna market in Europe and Asia-Pacific during the forecast period.

In North America, the U.S. is anticipated to show the highest growth in the satellite flat panel antenna market among other countries, such as the U.S. and Canada. U.S. is anticipated to grow at a CAGR of 14.99%. The growth of the U.S. in the satellite flat panel antenna market is mainly due to factors such as the increasing use of satellite technology in defense and military applications and the ability of these antennas to deliver high-speed broadband and satellite internet services to remote areas, among others.

Recent Developments in the Satellite Flat Panel Antenna Market

In May 2023, Dallas Fort Worth International Airport (DFW) partnered with AT&T to improve connectivity and critical infrastructure through a comprehensive wireless platform (CWP). AT&T plans to invest \$10 million in modernizing and

expanding the network covering the airport, supporting airport operations, and enhancing the free public Wi-Fi in terminals. Additionally, AT&T would establish a private 5G network for internal use by the airport to address the increasing demand for Internet of Things (IoT) use cases and the digitization of airport operations.

In April 2023, ALL.SPACE Networks Limited partnered with Kratos Defense & Security Solutions, Inc. to develop advanced terminal solutions for software-defined satellite ground systems. It features a multi-beam antenna.

In April 2023, OneWeb was selected to conduct two trials for the U.K. government's 'Very Hard to Reach Premises' connectivity program. The trials aim to connect the most remote homes and businesses in the U.K. and take place in the Shetland Islands and on Lundy Island. OneWeb's LEO network would deliver high-speed, low-latency connectivity for the trials through its partners BT and Clarus.

In March 2023, under a contract with Sierra Nevada Corporation (SNC), ThinKom Solutions, Inc. delivered its ThinAir Ka2517 phased array Satcom antenna systems for installation on Sierra Nevada's new RAPCON-X aircraft.

In March 2023, OneWeb and mu Space signed a multi-year, multi-million-dollar agreement to provide OneWeb's low Earth orbit (LEO) connectivity solutions to mainland Southeast Asia, including Thailand, Laos, Cambodia, Vietnam, and Malaysia.

In February 2023, GILAT SATELLITE NETWORKS received a multimillion-dollar contract from a leading integrator in the Asia-Pacific region for ER7000 Satcom on-the-move antenna to enable satellite-based internet for passenger trains.

Demand – Drivers and Limitations

Following are the drivers for the satellite flat panel antenna market:

Growing Demand for Satellite-Based Communication Services

Advancement in Proprietary Technologies

Rising Demand for High-Speed (5G/6G) Wireless Connectivity

Increasing Use of Multi-Orbit Antenna

Following are the challenges for the satellite flat panel antenna market:

Complex Design and Manufacturing

Need for Excessive Power Requirements

Proliferation of Interference

Following are the opportunities for the satellite flat panel antenna market:

Demand for High Data Rate Transmission

Company Consolidation

Use of Commercial Off-The-Shelf (COTS) Components

How can this report add value to an organization?

Product/Innovation Strategy: The product segment helps the reader understand the different types of antennas available for deployment and their potential globally. Moreover, the study provides the reader with a detailed understanding of the global satellite flat panel antenna market by steering mechanism (electronically steered antenna, mechanically steered antenna, and hybrid), type (flat panel antenna for satellite communication (Satcom), and flat panel antenna for terrestrial communication), and frequency band (L and S band, C and X band and Ku, K, and Ka band).

Growth/Marketing Strategy: The global satellite flat panel antenna market has seen major development by key players operating in the market, such as business expansion, partnership, collaboration, and joint venture. The favored strategy for the companies has been contracted to strengthen their position in the global satellite flat panel antenna market. For instance, in December 2022, OneWeb signed a contract with Hughes Network Systems for 10,000 Hughes LEO Terminals. The Hughes LEO

terminals have the company's electronically steered antenna and compact indoor/outdoor equipment. These terminals are designed to enable high-speed and low-latency broadband service on the OneWeb constellation.

Competitive Strategy: Key players in the global satellite flat panel antenna market analyzed and profiled in the study involve major satellite flat panel antenna manufacturing companies, satellite operators, and telecom operators. Moreover, a detailed competitive benchmarking of the players operating in the global satellite flat panel antenna market has been done to help the reader understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Methodology: The research methodology design adopted for this specific study includes a mix of data collected from primary and secondary data sources. Both primary resources (key players, market leaders, and in-house experts) and secondary research (a host of paid and unpaid databases), along with analytical tools, are employed to build the predictive and forecast models.

Data and validation have been taken into consideration from both primary sources as well as secondary sources.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on thorough secondary research, which includes analyzing company coverage, product portfolio, market penetration, and insights, which are gathered from primary experts.

The top solution segment, which is leading, includes satellite flat panel antenna manufacturers that capture around 65% of the presence in the market. Players in other industries, such as satellite operators and telecom operators, account for approximately 20% and 15% of the presence in the market, respectively.

Key Companies Profiled:

Solution Providers

ALCAN Systems GmbH i.L.

ALL.SPACE Networks Limited

Ball Aerospace

C-COM Satellite Systems Inc

China Starwin Science & Technology Co., Ltd

GILAT SATELLITE NETWORKS

Hanwha Phasor

Kymeta Corporation

L3Harris Technologies

THE MTI CORPORATION

NXTCOMM

OneWeb

ST Engineering

Starlink

ThinKom Solutions, Inc.

Satellite Operators

OQ Technology

Intelsat

Avanti Communications Group PLC

Eutelsat S.A.

Omnispace, LLC

OneWeb

China Satellite Communications Co., Ltd.

Telecom Operators

Nokia

ZTE

China Telecom

AT&T

T-Mobile

Orange

Jio

Huawei

Contents

1 MARKET

1.1 Industry Outlook

- 1.1.1 Evolution of Satellite Antennas
- 1.1.2 Satellite Constellation Scenario (2022-2033)
- 1.1.3 Non-GSO Satellite Services for Remote Connectivity Services
- 1.1.4 Start-Ups and Investment Landscape
- 1.1.5 Supply Chain Dynamics

1.2 Business Dynamics

- 1.2.1 Business Drivers
 - 1.2.1.1 Growing Demand for Satellite-Based Communication Services
 - 1.2.1.1.1 Emergence of Low Earth Orbit (LEO) Satellites and Geostationary Earth

Orbit (GEO) Satellite Networks

- 1.2.1.2 Advancement in Proprietary Technologies
- 1.2.1.3 Rising Demand for High-Speed (5G/6G) Wireless Connectivity
- 1.2.1.4 Increasing Use of Multi-Orbit Antenna

1.2.2 Business Challenges

- 1.2.2.1 Complex Design and Manufacturing
- 1.2.2.2 Need for Excessive Power Requirements
- 1.2.2.3 Proliferation of Interference

1.2.3 Business Strategies

- 1.2.3.1 New Product Launch

1.2.4 Corporate Strategies

- 1.2.4.1 Partnerships, Collaborations, Agreements, Contracts, and Others
- 1.2.4.2 Mergers and Acquisitions

1.2.5 Business Opportunities

- 1.2.5.1 Demand for High Data Rate Transmission
- 1.2.5.2 Company Consolidation
- 1.2.5.3 Use of Commercial Off-The-Shelf (COTS) Components

2 APPLICATION

2.1 Global Satellite Flat Panel Antenna Market (by Application)

2.1.1 Market Overview

2.1.1.1 Demand Analysis of Global Satellite Flat Panel Antenna Market (by Application), Value and Volume

2.1.2 Automotive

- 2.1.3 Aviation
- 2.1.4 Defense and Government
- 2.1.5 Enterprise
- 2.1.6 Maritime
- 2.1.7 Telecom
- 2.1.8 Oil and Gas
- 2.1.9 Space

3 PRODUCT

3.1 Global Satellite Flat Panel Antenna Market (by Steering Mechanism)

3.1.1 Market Overview

3.1.1.1 Demand Analysis of Global Satellite Flat Panel Antenna Market (by Steering Mechanism), Value and Volume

3.1.2 Electronically Steered Antenna

3.1.3 Mechanically Steered Antenna

3.1.4 Hybrid

3.2 Global Satellite Flat Panel Antenna Market (by Type)

3.2.1 Market Overview

3.2.1.1 Demand Analysis for Global Satellite Flat Panel Antenna Market (by Type), Value and Volume

3.2.2 Flat Panel Antenna for Satellite Communication (Satcom)

3.2.3 Flat Panel Antenna for Terrestrial Communication

3.3 Global Satellite Flat Panel Antenna Market (by Frequency Band)

3.3.1 Market Overview

3.3.1.1 Demand Analysis for Global Satellite Flat Panel Antenna Market (by Frequency Band), Value and Volume

3.3.2 L and S Band (1 GHz – 4 GHz)

3.3.3 C and X Band (4 GHz – 12 GHz)

3.3.4 Ku, K, and Ka Band (13 GHz – 40 GHz)

4 REGION

4.1 Global Satellite Flat Panel Antenna Market (by Region)

4.2 North America

4.2.1 Market

4.2.1.1 Business Drivers

4.2.1.2 Business Challenges

4.2.1.3 Key Manufacturers and Suppliers in North America

4.2.2 Application

4.2.2.1 North America Satellite Flat Panel Antenna Market (by Application)

4.2.3 North America (by Country)

4.2.3.1 U.S.

4.2.3.1.1 Market

4.2.3.1.1.1 Key Manufacturers and Suppliers in the U.S.

4.2.3.1.2 Application

4.2.3.1.2.1 U.S. Satellite Flat Panel Antenna Market (by Application)

4.2.3.2 Canada

4.2.3.2.1 Market

4.2.3.2.1.1 Key Manufacturers and Suppliers in Canada

4.2.3.2.2 Application

4.2.3.2.2.1 Canada Satellite Flat Panel Antenna Market (by Application)

4.3 Europe

4.3.1 Market

4.3.1.1 Key Manufacturers and Suppliers in Europe

4.3.1.2 Business Drivers

4.3.1.3 Business Challenges

4.3.2 Application

4.3.2.1 Europe Satellite Flat Panel Antenna Market (by Application)

4.3.3 Europe (by Country)

4.3.3.1 France

4.3.3.1.1 Market

4.3.3.1.1.1 Key Manufacturers and Suppliers in France

4.3.3.1.2 Application

4.3.3.1.2.1 France Satellite Flat Panel Antenna Market (by Application)

4.3.3.2 Germany

4.3.3.2.1 Market

4.3.3.2.1.1 Key Manufacturers and Suppliers in Germany

4.3.3.2.2 Application

4.3.3.2.2.1 Germany Satellite Flat Panel Antenna Market (by Application)

4.3.3.3 Russia

4.3.3.3.1 Application

4.3.3.3.1.1 Russia Satellite Flat Panel Antenna Market (by Application)

4.3.3.4 U.K.

4.3.3.4.1 Market

4.3.3.4.1.1 Key Manufacturers and Suppliers in the U.K.

4.3.3.4.2 Application

4.3.3.4.2.1 U.K. Satellite Flat Panel Antenna Market (by Application)

4.3.3.5 Rest-of-Europe

4.3.3.5.1 Market

4.3.3.5.1.1 Key Manufacturers and Suppliers in Rest-of-Europe

4.3.3.5.2 Application

4.3.3.5.2.1 Rest-of-Europe Satellite Flat Panel Antenna Market (by Application)

4.4 Asia-Pacific

4.4.1 Market

4.4.1.1 Key Manufacturers and Suppliers in Asia-Pacific

4.4.1.2 Business Drivers

4.4.1.3 Business Challenges

4.4.2 Application

4.4.2.1 Asia-Pacific Satellite Flat Panel Antenna Market (by Application)

4.4.3 Asia-Pacific (by Country)

4.4.3.1 China

4.4.3.1.1 Market

4.4.3.1.1.1 Key Manufacturers and Suppliers in China

4.4.3.1.2 Application

4.4.3.1.2.1 China Satellite Flat Panel Antenna Market (by Application)

4.4.3.2 India

4.4.3.2.1 Market

4.4.3.2.1.1 Key Manufacturers and Suppliers in India

4.4.3.2.2 Application

4.4.3.2.2.1 India Satellite Flat Panel Antenna Market (by Application)

4.4.3.3 Japan

4.4.3.3.1 Market

4.4.3.3.1.1 Key Manufacturers and Suppliers in Japan

4.4.3.3.2 Application

4.4.3.3.2.1 Japan Satellite Flat Panel Antenna Market (by Application)

4.4.3.4 South Korea

4.4.3.4.1 Market

4.4.3.4.1.1 Key Manufacturers and Suppliers in South Korea

4.4.3.4.2 Application

4.4.3.4.2.1 South Korea Satellite Flat Panel Antenna Market (by Application)

4.4.3.5 Rest-of-Asia-Pacific

4.4.3.5.1 Market

4.4.3.5.1.1 Key Manufacturers and Suppliers in Rest-of-Asia-Pacific

4.4.3.5.2 Application

4.4.3.5.2.1 Rest-of-Asia-Pacific Satellite Flat Panel Antenna Market (by Application)

4.5 Rest-of-the-World

4.5.1 Market

4.5.1.1 Key Manufacturers and Suppliers in Rest-of-the-World

4.5.1.2 Business Drivers

4.5.1.3 Business Challenges

4.5.2 Application

4.5.2.1 Rest-of-the-World Satellite Flat Panel Antenna Market (by Application)

4.5.3 Rest-of-the-World (by Country)

4.5.3.1 Middle East and Africa

4.5.3.1.1 Market

4.5.3.1.1.1 Key Manufacturers and Suppliers in Middle East and Africa

4.5.3.1.2 Application

4.5.3.1.2.1 Middle East and Africa Satellite Flat Panel Antenna Market (by Application)

4.5.3.2 South America

4.5.3.2.1 Market

4.5.3.2.1.1 Key Manufacturers and Suppliers in South America

4.5.3.2.2 Application

4.5.3.2.2.1 South America Satellite Flat Panel Antenna Market (by Application)

5 MARKET – COMPETITIVE BENCHMARKING & COMPANY PROFILES

5.1 Market Share Analysis

5.2 Solution Providers

5.2.1 ALCAN Systems GmbH i.L.

5.2.1.1 Company Overview

5.2.1.1.1 Role of ALCAN Systems GmbH i.L. in the Global Satellite Flat Panel Antenna Market

5.2.1.1.2 Customers

5.2.1.1.3 Product Portfolio

5.2.1.2 Business Strategies

5.2.1.2.1 Product Developments and Fundings

5.2.1.3 Corporate Strategies

5.2.1.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.1.4 Analyst View

5.2.2 ALL.SPACE Networks Limited

5.2.2.1 Company Overview

5.2.2.1.1 Role of ALL.SPACE Networks Limited in Global Satellite Flat Panel Antenna Market

- 5.2.2.1.2 Customers
- 5.2.2.1.3 Product Portfolio
- 5.2.2.2 Business Strategies
 - 5.2.2.2.1 Product Developments and Fundings
- 5.2.2.3 Corporate Strategies
 - 5.2.2.3.1 Partnerships, Collaborations, Contracts, and Agreements
- 5.2.2.4 Analyst View
- 5.2.3 Ball Aerospace
 - 5.2.3.1 Company Overview
 - 5.2.3.1.1 Role of Ball Aerospace in the Global Satellite Flat Panel Antenna Market
 - 5.2.3.1.2 Customers
 - 5.2.3.1.3 Product Portfolio
 - 5.2.3.2 Corporate Strategies
 - 5.2.3.2.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.2.3.3 Analyst View
- 5.2.4 C-COM Satellite Systems Inc
 - 5.2.4.1 Company Overview
 - 5.2.4.1.1 Role of C-COM Satellite Systems Inc in the Global Satellite Flat Panel Antenna Market
 - 5.2.4.1.2 Customers
 - 5.2.4.1.3 Product Portfolio
 - 5.2.4.2 Business Strategies
 - 5.2.4.2.1 Product Developments and Fundings
 - 5.2.4.3 R&D Analysis
 - 5.2.4.4 Analyst View
- 5.2.5 China Starwin Science & Technology Co., Ltd
 - 5.2.5.1 Company Overview
 - 5.2.5.1.1 Role of China Starwin Science & Technology Co., Ltd in the Global Satellite Flat Panel Antenna Market
 - 5.2.5.1.2 Customers
 - 5.2.5.1.3 Product Portfolio
 - 5.2.5.2 Business Strategies
 - 5.2.5.2.1 Product Developments and Fundings
 - 5.2.5.3 Corporate Strategies
 - 5.2.5.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.2.5.4 Analyst View
- 5.2.6 GILAT SATELLITE NETWORKS
 - 5.2.6.1 Company Overview
 - 5.2.6.1.1 Role of GILAT SATELLITE NETWORKS in the Global Satellite Flat Panel

Antenna Market

5.2.6.1.2 Customers

5.2.6.1.3 Product Portfolio

5.2.6.2 Business Strategies

5.2.6.2.1 Product Developments and Fundings

5.2.6.3 Corporate Strategies

5.2.6.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.6.4 R&D Analysis

5.2.6.5 Analyst View

5.2.7 Hanwha Phasor

5.2.7.1 Company Overview

5.2.7.1.1 Role of Hanwha Phasor in the Global Satellite Flat Panel Antenna Market

5.2.7.1.2 Customers

5.2.7.1.3 Product Portfolio

5.2.7.2 Corporate Strategies

5.2.7.2.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.7.3 Analyst View

5.2.8 Kymeta Corporation

5.2.8.1 Company Overview

5.2.8.1.1 Role of Kymeta Corporation in the Global Satellite Flat Panel Antenna

Market

5.2.8.1.2 Customers

5.2.8.1.3 Product Portfolio

5.2.8.2 Business Strategies

5.2.8.2.1 Product Developments and Fundings

5.2.8.3 Corporate Strategies

5.2.8.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.8.3.2 Mergers and Acquisitions

5.2.8.4 Analyst View

5.2.9 L3Harris Technologies

5.2.9.1 Company Overview

5.2.9.1.1 Role of L3Harris Technologies in the Global Satellite Flat Panel Antenna

Market

5.2.9.1.2 Customers

5.2.9.1.3 Product Portfolio

5.2.9.2 Business Strategies

5.2.9.2.1 Product Developments and Fundings

5.2.9.3 Corporate Strategies

5.2.9.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.9.4 R&D Analysis

5.2.9.5 Analyst View

5.2.10 THE MTI CORPORATION

5.2.10.1 Company Overview

5.2.10.1.1 Role of THE MTI CORPORATION in the Global Satellite Flat Panel

Antenna Market

5.2.10.1.2 Customers

5.2.10.1.3 Product Portfolio

5.2.10.2 Business Strategies

5.2.10.2.1 Product Developments and Fundings

5.2.10.3 Corporate Strategies

5.2.10.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.10.4 R&D Analysis

5.2.10.5 Analyst View

5.2.11 NXTCOMM

5.2.11.1 Company Overview

5.2.11.1.1 Role of NXTCOMM in the Global Satellite Flat Panel Antenna Market

5.2.11.1.2 Customers

5.2.11.1.3 Product Portfolio

5.2.11.2 Business Strategies

5.2.11.2.1 Product Developments and Fundings

5.2.11.3 Corporate Strategies

5.2.11.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.11.4 Analyst View

5.2.12 OneWeb

5.2.12.1 Company Overview

5.2.12.1.1 Role of OneWeb in the Global Satellite Flat Panel Antenna Market

5.2.12.1.2 Customers

5.2.12.1.3 Product Portfolio

5.2.12.2 Business Strategies

5.2.12.2.1 Product Developments and Fundings

5.2.12.3 Corporate Strategies

5.2.12.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.12.4 Analyst View

5.2.13 ST Engineering

5.2.13.1 Company Overview

5.2.13.1.1 Role of ST Engineering in the Global Satellite Flat Panel Antenna Market

5.2.13.1.2 Customers

5.2.13.1.3 Product Portfolio

5.2.13.2 Corporate Strategies

5.2.13.2.1 ST Engineering: Partnerships, Collaborations, Contracts, and Agreements

5.2.13.3 R&D Analysis

5.2.13.4 Analyst View

5.2.14 Starlink

5.2.14.1 Company Overview

5.2.14.1.1 Role of Starlink in the Global Satellite Flat Panel Antenna Market

5.2.14.1.2 Customers

5.2.14.1.3 Product Portfolio

5.2.14.2 Business Strategies

5.2.14.2.1 Product Developments and Fundings

5.2.14.3 Analyst View

5.2.15 ThinKom Solutions, Inc.

5.2.15.1 Company Overview

5.2.15.1.1 Role of ThinKom Solutions, Inc. in the Global Satellite Flat Panel Antenna Market

5.2.15.1.2 Customers

5.2.15.1.3 Product Portfolio

5.2.15.2 Business Strategies

5.2.15.2.1 Product Developments and Fundings

5.2.15.3 Corporate Strategies

5.2.15.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.2.15.4 Analyst View

5.3 Satellite Operators

5.3.1 OQ Technology

5.3.1.1 Company Overview

5.3.1.1.1 Role of OQ Technology in the Global Satellite Flat Panel Antenna Market

5.3.1.1.2 Customers

5.3.1.1.3 Product Portfolio

5.3.1.2 Business Strategies

5.3.1.2.1 Product Developments and Fundings

5.3.1.2.2 Corporate Strategies

5.3.1.3 Partnerships, Collaborations, Contracts, and Agreements

5.3.1.4 Analyst View

5.3.2 Intelsat

5.3.2.1 Company Overview

5.3.2.1.1 Role of Intelsat in the Global Satellite Flat Panel Antenna Market

5.3.2.1.2 Customers

- 5.3.2.1.3 Product Portfolio
 - 5.3.2.2 Business Strategies
 - 5.3.2.2.1 Product Developments and Fundings
 - 5.3.2.3 Corporate Strategies
 - 5.3.2.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.3.2.4 Analyst View
 - 5.3.3 Avanti Communications Group PLC
 - 5.3.3.1 Company Overview
 - 5.3.3.1.1 Role of Avanti Communications Group PLC in the Global Satellite Flat Panel Antenna Market
 - 5.3.3.1.2 Customers
 - 5.3.3.1.3 Product Portfolio
 - 5.3.3.2 Business Strategies
 - 5.3.3.2.1 Product Developments and Fundings
 - 5.3.3.3 Corporate Strategies
 - 5.3.3.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.3.3.4 Analyst View
- 5.3.4 Eutelsat S.A.
 - 5.3.4.1 Company Overview
 - 5.3.4.1.1 Role of Eutelsat S.A. in the Global Satellite Flat Panel Antenna Market
 - 5.3.4.1.2 Customers
 - 5.3.4.1.3 Product Portfolio
 - 5.3.4.2 Business Strategies
 - 5.3.4.2.1 Product Developments and Fundings
 - 5.3.4.3 Corporate Strategies
 - 5.3.4.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.3.4.4 Analyst View
 - 5.3.5 Omnispace, LLC
 - 5.3.5.1 Company Overview
 - 5.3.5.1.1 Role of Omnispace, LLC in the Global Satellite Flat Panel Antenna Market
 - 5.3.5.1.2 Customers
 - 5.3.5.1.3 Product Portfolio
 - 5.3.5.2 Business Strategies
 - 5.3.5.2.1 Product Developments and Fundings
 - 5.3.5.3 Corporate Strategies
 - 5.3.5.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.3.5.4 Analyst View
 - 5.3.6 OneWeb
 - 5.3.6.1 Company Overview

- 5.3.6.1.1 Role of OneWeb in the Global Satellite Flat Panel Antenna Market
- 5.3.6.1.2 Customers
- 5.3.6.1.3 Product Portfolio
- 5.3.6.2 Business Strategies
 - 5.3.6.2.1 Product Developments and Fundings
- 5.3.6.3 Corporate Strategies
 - 5.3.6.3.1 Partnerships, Collaborations, Contracts, and Agreements
- 5.3.6.4 Analyst View
- 5.3.7 China Satellite Communications Co., Ltd.
 - 5.3.7.1 Company Overview
 - 5.3.7.1.1 Role of China Satellite Communications Co., Ltd. in the Global Satellite Flat Panel Antenna Market
 - 5.3.7.1.2 Customers
 - 5.3.7.1.3 Product Portfolio
 - 5.3.7.2 Analyst View
- 5.4 Telecom Operators
 - 5.4.1 Nokia
 - 5.4.1.1 Company Overview
 - 5.4.1.1.1 Role of Nokia in the Global Satellite Flat Panel Antenna Market
 - 5.4.1.1.2 Customers
 - 5.4.1.1.3 Product Portfolio
 - 5.4.1.2 Business Strategies
 - 5.4.1.2.1 Product Developments and Fundings
 - 5.4.1.3 Corporate Strategies
 - 5.4.1.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.4.1.4 R&D Analysis
 - 5.4.1.5 Analyst View
 - 5.4.2 ZTE
 - 5.4.2.1 Company Overview
 - 5.4.2.1.1 Role of ZTE in the Global Satellite Flat Panel Antenna Market
 - 5.4.2.1.2 Customers
 - 5.4.2.1.3 Product Portfolio
 - 5.4.2.2 Corporate Strategies
 - 5.4.2.2.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.4.2.3 R&D Analysis
 - 5.4.2.4 Analyst View
 - 5.4.3 China Telecom
 - 5.4.3.1 Company Overview
 - 5.4.3.1.1 Role of China Telecom in the Global Satellite Flat Panel Antenna Market

- 5.4.3.1.2 Customers
- 5.4.3.1.3 Product Portfolio
- 5.4.3.2 Business Strategies
 - 5.4.3.2.1 Product Developments and Fundings
- 5.4.3.3 Corporate Strategies
 - 5.4.3.3.1 Partnerships, Collaborations, Contracts, and Agreements
- 5.4.3.4 R&D Analysis
- 5.4.3.5 Analyst View
- 5.4.4 AT&T
 - 5.4.4.1 Company Overview
 - 5.4.4.1.1 Role of AT&T in the Global Satellite Flat Panel Antenna Market
 - 5.4.4.1.2 Customers
 - 5.4.4.1.3 Product Portfolio
 - 5.4.4.2 Business Strategies
 - 5.4.4.2.1 Product Developments and Fundings
 - 5.4.4.3 Corporate Strategies
 - 5.4.4.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.4.4.4 Analyst View
- 5.4.5 T-Mobile
 - 5.4.5.1 Company Overview
 - 5.4.5.1.1 Role of T-Mobile in the Global Satellite Flat Panel Antenna Market
 - 5.4.5.1.2 Customers
 - 5.4.5.1.3 Product Portfolio
 - 5.4.5.2 Business Strategies
 - 5.4.5.2.1 Product Developments and Fundings
 - 5.4.5.3 Corporate Strategies
 - 5.4.5.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.4.5.4 Analyst View
- 5.4.6 Orange
 - 5.4.6.1 Company Overview
 - 5.4.6.1.1 Role of Orange in the Global Satellite Flat Panel Antenna Market
 - 5.4.6.1.2 Customers
 - 5.4.6.1.3 Product Portfolio
 - 5.4.6.2 Business Strategies
 - 5.4.6.2.1 Product Developments and Fundings
 - 5.4.6.3 Corporate Strategies
 - 5.4.6.3.1 Partnerships, Collaborations, Contracts, and Agreements
 - 5.4.6.4 Analyst View
- 5.4.7 Jio

5.4.7.1 Company Overview

5.4.7.1.1 Role of Jio in the Global Satellite Flat Panel Antenna Market

5.4.7.1.2 Customers

5.4.7.1.3 Product Portfolio

5.4.7.2 Corporate Strategies

5.4.7.2.1 Partnerships, Collaborations, Contracts, and Agreements

5.4.7.3 Analyst View

5.4.8 Huawei

5.4.8.1 Company Overview

5.4.8.1.1 Role of Huawei in the Global Satellite Flat Panel Antenna Market

5.4.8.1.2 Customers

5.4.8.1.3 Product Portfolio

5.4.8.2 Business Strategies

5.4.8.2.1 Product Developments and Fundings

5.4.8.3 Corporate Strategies

5.4.8.3.1 Partnerships, Collaborations, Contracts, and Agreements

5.4.8.4 R&D Analysis

5.4.8.5 Analyst View

6 GROWTH OPPORTUNITIES AND RECOMMENDATIONS

6.1 Growth Opportunities

6.1.1 Growth Opportunity 1: Growing Demand from Automotive Market

6.1.1.1 Recommendation

6.1.2 Growth Opportunity 2: LEO-based Satellite Connectivity Market

6.1.2.1 Recommendation

6.1.3 Growth Opportunity 3: Increasing Demand for Multi-Band Satellite Communication (Satcom) Terminals

6.1.3.1 Recommendation

7 RESEARCH METHODOLOGY

7.1 Factors for Data Prediction and Modeling

List Of Figures

LIST OF FIGURES

Figure 1: Global Satellite Flat Panel Antenna Market, \$Billion, 2022-2033

Figure 2: Global Satellite Flat Panel Antenna Market, Units, 2022-2033

Figure 3: Global Satellite Flat Panel Antenna Market (by Application), \$Billion, 2023 and 2033

Figure 4: Global Satellite Flat Panel Antenna Market (by Application), Units, 2023 and 2033

Figure 5: Global Satellite Flat Panel Antenna Market (by Steering Mechanism), \$Billion, 2023 and 2033

Figure 6: Global Satellite Flat Panel Antenna Market (by Steering Mechanism), Units, 2023 and 2033

Figure 7: Global Satellite Flat Panel Antenna Market (by Type), Units, 2023 and 2033

Figure 8: Global Satellite Flat Panel Antenna Market (by Type), \$Billion, 2023 and 2033

Figure 9: Global Satellite Flat Panel Antenna Market (by Frequency Band), \$Billion, 2023 and 2033

Figure 10: Global Satellite Flat Panel Antenna Market (by Frequency Band), Units, 2023 and 2033

Figure 11: Global Satellite Flat Panel Antenna Market (by Region), \$Billion, 2033

Figure 12: Global Satellite Flat Panel Antenna Market Coverage

Figure 13: Satellite Constellation Scenario (2022-2033)

Figure 14: Expected Launches of Satellite Constellations, 2023-2033

Figure 15: Supply Chain Analysis for Global Satellite Flat Panel Antenna Market

Figure 16: Global Satellite Flat Panel Antenna Market, Business Dynamics

Figure 17: Share of Key Business Strategies and Developments, January 2020-May 2023

Figure 18: Global Satellite Flat Panel Antenna Market (by Application)

Figure 19: Global Satellite Flat Panel Antenna Market (by Steering Mechanism)

Figure 20: Global Satellite Flat Panel Antenna Market (by Type)

Figure 21: Global Satellite Flat Panel Antenna Market (by Frequency Band)

Figure 22: Global Satellite Flat Panel Antenna Market: Market Share Analysis, 2022

Figure 23: C-COM Satellite Systems Inc: R&D Analysis, \$Million, 2020-2022

Figure 24: GILAT SATELLITE NETWORKS: R&D Analysis, \$Million, 2020-2022

Figure 25: L3Harris Technologies: R&D Analysis, \$Million, 2020-2022

Figure 26: THE MTI CORPORATION: R&D Analysis, \$Million, 2020-2022

Figure 27: ST Engineering: R&D Analysis, \$Million, 2020-2022

Figure 28: Nokia: R&D Analysis, \$Billion, 2020-2022

Figure 29: ZTE: R&D Analysis, \$Billion, 2020-2022

Figure 30: China Telecom: R&D Analysis, \$Billion, 2020-2022

Figure 31: Huawei: R&D Analysis, \$Billion, 2020-2022

Figure 32: Research Methodology

Figure 33: Top-Down and Bottom-Up Approach

Figure 34: Assumptions and Limitations

List Of Tables

LIST OF TABLES

Table 1: Funding and Investment Scenario, January 2016-December 2022

Table 2: Advancement in Proprietary Technologies

Table 3: New Product Launches, Developments, and Others, January 2020-May 2023

Table 4: Partnerships, Collaborations, Agreements, Contracts and Others, January 2020-May 2023

Table 5: Mergers and Acquisitions, January 2020-May 2023

Table 6: Global Satellite Flat Panel Antenna Market (by Application), \$Billion, 2022-2033

Table 7: Global Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 8: Global Satellite Flat Panel Antenna Market (by Steering Mechanism), \$Billion, 2022-2033

Table 9: Global Satellite Flat Panel Antenna Market (by Steering Mechanism), Units, 2022-2033

Table 10: Global Satellite Flat Panel Antenna Market (by Type), \$Billion, 2022-2033

Table 11: Global Satellite Flat Panel Antenna Market (by Type), Units, 2022-2033

Table 12: Global Satellite Flat Panel Antenna Market (by Frequency Band), \$Billion, 2022-2033

Table 13: Global Satellite Flat Panel Antenna Market (by Frequency Band), Units, 2022-2033

Table 14: Global Satellite Flat Panel Antenna Market (by Region), Units, 2022-2033

Table 15: Global Satellite Flat Panel Antenna Market (by Region), \$Billion, 2022-2033

Table 16: North America Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 17: North America Satellite Flat Panel Antenna Market (by Application), \$Billion, 2022-2033

Table 18: U.S. Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 19: U.S. Satellite Flat Panel Antenna Market (by Application), \$Billion, 2022-2033

Table 20: Canada Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 21: Canada Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 22: Europe Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 23: Europe Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 24: France Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 25: France Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 26: Germany Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 27: Germany Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 28: Russia Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 29: Russia Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 30: U.K. Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 31: U.K. Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 32: Rest-of-Europe Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 33: Rest-of-Europe Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 34: Asia-Pacific Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 35: Asia-Pacific Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 36: China Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 37: China Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 38: India Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 39: India Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 40: Japan Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 41: Japan Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 42: South Korea Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 43: South Korea Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 44: Rest-of-Asia-Pacific Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 45: Rest-of-Asia-Pacific Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 46: Rest-of-the-World Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 47: Rest-of-the-World Satellite Flat Panel Antenna Market (by Application),

\$Million, 2022-2033

Table 48: Middle East and Africa Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 49: Middle East and Africa Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 50: South America Satellite Flat Panel Antenna Market (by Application), Units, 2022-2033

Table 51: South America Africa Satellite Flat Panel Antenna Market (by Application), \$Million, 2022-2033

Table 52: ALCAN Systems GmbH i.L.: Product Portfolio

Table 53: ALCAN Systems GmbH i.L.: Product Developments and Fundings

Table 54: ALCAN Systems GmbH i.L.: Partnerships, Collaborations, Contracts, and Agreements

Table 55: ALL.SPACE Networks Limited: Product Portfolio

Table 56: ALL.SPACE Networks Limited: Product Developments and Fundings

Table 57: ALL.SPACE Networks Limited: Partnerships, Collaborations, Contracts, and Agreements

Table 58: Ball Aerospace: Product Portfolio

Table 59: Ball Aerospace: Partnerships, Collaborations, Contracts, and Agreements

Table 60: C-COM Satellite Systems Inc: Product Portfolio

Table 61: C-COM Satellite Systems Inc: Product Developments and Fundings

Table 62: China Starwin Science & Technology Co., Ltd: Product Portfolio

Table 63: China Starwin Science & Technology Co., Ltd: Product Developments and Fundings

Table 64: China Starwin Science & Technology Co. , Ltd: Partnerships, Collaborations, Contracts, and Agreements

Table 65: GILAT SATELLITE NETWORKS: Product Portfolio

Table 66: GILAT SATELLITE NETWORKS: Product Developments and Fundings

Table 67: GILAT SATELLITE NETWORKS: Partnerships, Collaborations, Contracts, and Agreements

Table 68: Hanwha Phasor: Product Portfolio

Table 69: Hanwha Phasor: Partnerships, Collaborations, Contracts, and Agreements

Table 70: Kymeta Corporation: Product Portfolio

Table 71: Kymeta Corporation: Product Developments and Fundings

Table 72: Kymeta Corporation: Partnerships, Collaborations, Contracts, and Agreements

Table 73: Kymeta Corporation: Mergers and Acquisitions

Table 74: L3Harris Technologies: Product Portfolio

Table 75: L3Harris Technologies: Product Developments and Fundings

Table 76: L3Harris Technologies: Partnerships, Collaborations, Contracts, and Agreements

Table 77: THE MTI CORPORATION: Product Portfolio

Table 78: THE MTI CORPORATION: Product Developments and Fundings

Table 79: THE MTI CORPORATION: Partnerships, Collaborations, Contracts, and Agreements

Table 80: NXTCOMM: Product Portfolio

Table 81: NXTCOMM: Product Developments and Fundings

Table 82: NXTCOMM: Partnerships, Collaborations, Contracts, and Agreements

Table 83: OneWeb: Product Portfolio

Table 84: OneWeb: Product Developments and Fundings

Table 85: OneWeb: Partnerships, Collaborations, Contracts, and Agreements

Table 86: ST Engineering: Product Portfolio

Table 87: ST Engineering: Partnerships, Collaborations, Contracts, and Agreements

Table 88: Starlink: Product Portfolio

Table 89: Starlink: Product Developments and Fundings

Table 90: ThinKom Solutions, Inc.: Product Portfolio

Table 91: ThinKom Solutions, Inc.: Product Developments and Fundings

Table 92: ThinKom Solutions, Inc.: Partnerships, Collaborations, Contracts, and Agreements

Table 93: OQ Technology: Product Portfolio

Table 94: OQ Technology: Product Developments and Fundings

Table 95: OQ Technology: Partnerships, Collaborations, Contracts, and Agreements

Table 96: Intelsat: Product Portfolio

Table 97: Intelsat: Product Developments and Fundings

Table 98: Intelsat: Partnerships, Collaborations, Contracts, and Agreements

Table 99: Avanti Communications Group PLC: Product Portfolio

Table 100: Avanti Communications Group PLC: Product Developments and Fundings

Table 101: Partnerships, Collaborations, Contracts, and Agreements

Table 102: Eutelsat S.A.: Product satellite Portfolio

Table 103: Eutelsat S.A. : Product Developments and Fundings

Table 104: Eutelsat S.A. : Partnerships, Collaborations, Contracts, and Agreements

Table 105: Omnispace, LLC: Product Portfolio

Table 106: Omnispace, LLC: Product Developments and Fundings

Table 107: Omnispace, LLC: Partnerships, Collaborations, Contracts, and Agreements

Table 108: OneWeb: Product Portfolio

Table 109: OneWeb: Product Developments and Fundings

Table 110: OneWeb: Partnerships, Collaborations, Contracts, and Agreements

Table 111: China Satellite Communications Co., Ltd.: Product Portfolio

Table 112: Nokia: Product Portfolio

Table 113: Nokia: Product Developments and Fundings

Table 114: Nokia: Partnerships, Collaborations, Contracts, and Agreements

Table 115: ZTE: Product Portfolio

Table 116: ZTE: Partnerships, Collaborations, Contracts, and Agreements

Table 117: China Telecom: Product Portfolio

Table 118: China Telecom: Product Developments and Fundings

Table 119: China Telecom: Partnerships, Collaborations, Contracts, and Agreements

Table 120: AT&T: Product Portfolio

Table 121: AT&T: Product Developments and Fundings

Table 122: AT&T: Partnerships, Collaborations, Contracts, and Agreements

Table 123: T-Mobile: Product Portfolio

Table 124: T-Mobile: Product Developments and Fundings

Table 125: T-Mobile: Partnerships, Collaborations, Contracts, and Agreements

Table 126: Orange: Product Portfolio

Table 127: Orange: Product Developments and Fundings

Table 128: Orange: Partnerships, Collaborations, Contracts, and Agreements

Table 129: Jio: Product Portfolio

Table 130: Jio: Partnerships, Collaborations, Contracts, and Agreements

Table 131: Huawei: Product Portfolio

Table 132: Huawei: Product Developments and Fundings

Table 133: Huawei: Partnerships, Collaborations, Contracts, and Agreements

I would like to order

Product name: Satellite Flat Panel Antenna Market - A Global and Regional Analysis: Focus on Application, Steering Mechanism, Type, Frequency Band, and Country - Analysis and Forecast, 2023-2033

Product link: <https://marketpublishers.com/r/SC17B8510BBFEN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SC17B8510BBFEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970