

Flat Panel Antenna Market with Covid-19 Impact by Type (Electronically Steered, Mechanically Steered), Frequency (C and X, Ku, K, Ka), End-Use Application (Aviation, Telecommunications, Military) and Region - Global Forecast to 2027

<https://marketpublishers.com/r/FC2D67307C7AEN.html>

Date: March 2022

Pages: 214

Price: US\$ 4,950.00 (Single User License)

ID: FC2D67307C7AEN

Abstracts

The rising demand for electronically steered phased array flat panel antennas, increasing focus towards space explorations and satellites launches in different countries such as China, Russia and US, increasing demand for VSAT-Based flat panel antennas for maritime as well as commercial applications are the key factors driving the growth of the flat panel antenna market. However, hefty costs pertaining towards development and maintenance of the antennas are the major restraint that hinders the growth of the flat panel antenna market. On the contrary, demand for flat panel antennas in commercial application especially passenger vehicles, development of ultra-compact, low profile flat panel antennas for advanced ground combat vehicles and increasing need for high data transmission rate are likely to provide lucrative opportunities to the flat panel antenna market players during 2022–2027. Moreover, lack of skilled and technically qualified workforce pose challenges to the flat panel antenna market.

Electronically Steered type is expected to witness the highest market share and growth rate during the forecast period

Based on different types, the market has been segmented into two categories: electronically steered and mechanically steered. Electronically steered antenna is the leading type in the flat panel antenna market in terms of C

AGR and market size. This is mainly because of its low cost and high market

acceptance. Electrically steered flat panel antenna is expected to gain traction due to compact size, low cost, and significant adoption in enterprise, maritime, land mobile, and aviation industries. AICAN Systems (Canada), C-COM Satellite Systems Inc (Canada), Hanwha Phasor (UK), and ThinKom Solutions (US) are some of the players providing electronically steered FPA systems.

Commercial application is expected to have the largest market share during the forecast period

The commercial application is expected to grow at the highest CAGR in the flat panel antenna market. The commercial segment cater to a variety of applications, especially commercial shipping, boating, super yachts, passenger vehicles, and other applications. The flat panel antennas used for such applications are smaller and more discreet than the large radomes generally used on bigger vessels for broadband satellite communication. These flat panel antennas include ESA OR phased array antennas which track satellites electronically while the units themselves are stationary, so there are no moving parts to wear out and potentially fail. Thus, rising demand for such antennas in different commercial applications is driving the growth of flat panel antenna market.

Asia Pacific is the leading flat panel antenna market in terms of CAGR globally.

APAC is expected to contribute to the highest CAGR during the forecast period in the flat panel antenna market. APAC is the major market for consumer and commercial segment due to its growing population. Key countries in APAC include China, Japan, India, and South Korea. Rapid developments related to flat panel antenna in telecommunication applications also provide growth opportunities for the market in APAC as trend for 5G in APAC is growing at a fast pace. Other factors contributing to the rising demand for flat panel antennas in APAC include technological advancements in antenna technology, increased awareness of the benefits of using flat panel antennas among the masses, and the cost-effectiveness of these antennas. Electronically steered flat panel antenna type is famous and reliable way initiate satellite communications and retrieve data and information in telecommunications and commercial sectors in Asia and other continents.

The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 - 45%, Tier 2 - 35%, and Tier 3 - 20%

By Designation: C-level Executives - 35%, Director Level - 43%, and Others - 22%

By Region: North America - 33%, Europe - 30%, APAC - 24%, and RoW - 13%

Kymeta Corporation (US), ThinKom Solutions (US), Hanwha Phasor (England), TTI Norte (Spain), and L3Harria Technologies (US).

Research Coverage:

This research report categorizes the flat panel antenna market by type, by frequency, end-use application and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the flat panel antenna market and forecasts the same till 2027.

Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the flat panel antenna market comprehensively and provides the closest market size projection for all subsegments across different regions.
2. The report helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, challenges, and opportunities for market growth.
3. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes product launches and developments, collaborations, contracts and acquisitions.
4. This report would help understand the pre and post-COVID-19 scenarios as to how would the penetration of flat panel antenna will look like for the forecast period. The region segment includes the country wise impact analysis of COVID-19 and initiatives taken to overcome these impacts.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 SEGMENTATION OF FLAT PANEL ANTENNA MARKET

1.3.2 GEOGRAPHIC SCOPE

1.3.3 YEARS CONSIDERED

1.4 CURRENCY

1.5 LIMITATIONS

1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 FLAT PANEL ANTENNA MARKET: RESEARCH DESIGN

2.1.1 SECONDARY AND PRIMARY RESEARCH

2.1.1.1 Key industry insights

2.1.2 SECONDARY DATA

2.1.2.1 List of major secondary sources

2.1.2.2 Secondary sources

2.1.3 PRIMARY DATA

2.1.3.1 Breakdown of primary interviews

2.1.3.2 Key data from primary sources

2.2 MARKET SIZE ESTIMATION

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: SUPPLY SIDE—REVENUE GENERATED BY COMPANIES FROM SALES OF FLAT PANEL ANTENNAS

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach for estimating market size using bottom-up analysis (demand side)

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach for estimating market size using top-down analysis (supply side)

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 6 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

FIGURE 7 ASSUMPTIONS FOR RESEARCH STUDY

2.5 RISK ASSESSMENT

TABLE 1 RISK FACTOR ANALYSIS

2.6 FORECASTING ASSUMPTIONS

2.7 COMPETITIVE LEADERSHIP MAPPING METHODOLOGY

TABLE 2 EVALUATION CRITERIA

2.7.1 VENDOR INCLUSION CRITERIA

3 EXECUTIVE SUMMARY

FIGURE 8 COMMERCIAL APPLICATION TO WITNESS HIGHEST CAGR IN FLAT PANEL ANTENNA MARKET DURING FORECAST PERIOD

FIGURE 9 ELECTRONICALLY STEERED ANTENNA SEGMENT TO ACCOUNT FOR LARGER MARKET SIZE AND GROW AT HIGHER CAGR DURING FORECAST PERIOD

FIGURE 10 KU, K, AND KA BAND FREQUENCY SEGMENT TO ACCOUNT FOR LARGER MARKET SIZE AND HIGHER CAGR DURING FORECAST PERIOD

FIGURE 11 NORTH AMERICA TO ACCOUNT FOR LARGEST SHARE OF OVERALL FLAT PANEL ANTENNA MARKET IN 2027

3.1 IMPACT ANALYSIS OF COVID-19 ON FLAT PANEL ANTENNA MARKET

FIGURE 12 FLAT PANEL ANTENNA MARKET SIZE IN PRE-COVID-19 AND POST-COVID-19 SCENARIOS

TABLE 3 FLAT PANEL ANTENNA MARKET: PRE-COVID-19 AND POST-COVID-19 SCENARIOS, 2018–2027 (USD MILLION)

3.1.1 OPTIMISTIC SCENARIO

3.1.2 REALISTIC SCENARIO

3.1.3 PESSIMISTIC SCENARIO

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN FLAT PANEL ANTENNA MARKET

FIGURE 13 COLLABORATIONS AMONG KEY PLAYERS AND ADOPTION OF FLAT PANEL ANTENNAS IN VARIOUS END-USE APPLICATIONS ARE DRIVING MARKET GROWTH

4.2 FLAT PANEL ANTENNA MARKET, BY TYPE

FIGURE 14 ELECTRONICALLY STEERED FLAT PANEL ANTENNA TO ACCOUNT FOR LARGER MARKET SHARE BY 2027

4.3 FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION

FIGURE 15 COMMERCIAL EXPECTED TO LEAD IN TERMS OF SIZE DURING FORECAST PERIOD

4.4 REGION-WISE FLAT PANEL ANTENNA MARKET GROWTH RATE

FIGURE 16 FLAT PANEL ANTENNA MARKET IN APAC TO GROW AT HIGHEST CAGR WHILE NORTH AMERICA TO HOLD MAJOR MARKET SHARE BETWEEN 2022 AND 2027

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 17 RISING DEMAND FOR ELECTRONICALLY STEERED ANTENNAS TO DRIVE GROWTH OF FLAT PANEL ANTENNA MARKET

5.2.1 DRIVERS

FIGURE 18 IMPACT OF DRIVERS ON FLAT PANEL ANTENNA MARKET

5.2.1.1 Rising demand for electronically steered phased array flat panel antennas

5.2.1.2 Rising focus on space exploration missions and satellite launches

FIGURE 19 NUMBER OF SATELLITE LAUNCHES (2017–2021)

5.2.1.3 Increasing demand for VSAT-based flat panel antennas for maritime as well as commercial applications

5.2.1.4 Increasing demand for UAVs and focus on development of compact antenna systems for UAV platforms

5.2.2 RESTRAINTS

FIGURE 20 IMPACT OF RESTRAINTS ON FLAT PANEL ANTENNA MARKET

5.2.2.1 High costs associated with development and maintenance of infrastructure to support flat panel antennas

5.2.3 OPPORTUNITIES

FIGURE 21 IMPACT OF OPPORTUNITIES ON FLAT PANEL ANTENNA MARKET

5.2.3.1 Development of ultra-compact, low profile flat panel antennas for advanced ground combat vehicles

5.2.3.2 Demand for flat panel antennas in commercial applications, especially passenger vehicles

5.2.3.3 Demand for high data rate transmission

5.2.4 CHALLENGES

FIGURE 22 IMPACT OF CHALLENGES ON FLAT PANEL ANTENNA MARKET

5.2.4.1 Electromagnetic compatibility-related challenges of flat panel satellite antennas

5.2.4.2 Lack of skilled workforce

5.3 VALUE CHAIN ANALYSIS

FIGURE 23 VALUE CHAIN ANALYSIS OF FLAT PANEL ANTENNA ECOSYSTEM:
R&D AND MANUFACTURING PHASES CONTRIBUTE MAXIMUM VALUE

5.3.1 RESEARCH & DEVELOPMENT (R&D)

5.3.2 MANUFACTURING

5.3.3 ASSEMBLERS AND INTEGRATORS

5.3.4 DISTRIBUTION/RESELLERS

5.3.5 END USERS

5.3.6 AFTER-SALES SERVICES

5.4 ECOSYSTEM/MARKET MAP

FIGURE 24 FLAT PANEL ANTENNA MARKET ECOSYSTEM

FIGURE 25 KEY PARTICIPANTS IN FLAT PANEL ANTENNA ECOSYSTEM

5.4.1 R&D INSTITUTES

5.4.2 FLAT PANEL ANTENNA PROVIDERS

5.4.3 END USERS

TABLE 4 FLAT PANEL ANTENNA MARKET: SUPPLY CHAIN

5.5 TECHNOLOGY AND INDUSTRY TRENDS ANALYSIS

5.5.1 KEY TECHNOLOGIES AND TRENDS

5.5.1.1 Use of Wide V Band for satellite communication

5.5.1.2 New advanced antenna designs

5.5.1.3 Development of active electronically scanned array (AESA)

5.5.1.4 Development of small satellite constellations to enhance communication

5.5.1.5 3D printing of RF equipment

5.5.1.6 Active Direct Radiating Array Technologies

5.5.1.7 Multi-Band, Multi-Mission (MBMM) antenna

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS (YC-YCC
SHIFT)

FIGURE 26 TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS (YC-
YCC SHIFT): FLAT PANEL ANTENNA MARKET

5.7 PORTER'S FIVE FORCES ANALYSIS

TABLE 5 PORTER'S FIVE FORCES IMPACT ON FLAT PANEL ANTENNA MARKET
(2021)

FIGURE 27 PORTER'S FIVE FORCES ANALYSIS: FLAT PANEL ANTENNA MARKET
(2021)

5.7.1 THREAT OF NEW ENTRANTS

5.7.2 THREAT OF SUBSTITUTES

5.7.3 BARGAINING POWER OF SUPPLIERS

5.7.4 BARGAINING POWER OF BUYERS

5.7.5 INTENSITY OF COMPETITIVE RIVALRY

5.8 CASE STUDIES

5.8.1 LEIDOS UTILIZED THINKOM SOLUTIONS' THINAIR KA2517 PHASED ARRAY ANTENNA SYSTEM FOR US ARMY MODEM

5.8.2 ONEWEB UTILIZED KYMETA'S U8 BASED LEO TERMINAL WITH ITS LEO SATELLITE CONSTELLATION

5.8.3 US ARMY UTILIZED KYMETA'S U8 TERMINAL FOR ITS ARMORED BRIGADE COMBAT TEAM (ABCT) SATELLITE COMMUNICATIONS ON MOVE (SOTM) PILOT PROGRAM

5.8.4 CHINESE GOVERNMENT INSTALLED CHINA STARWIN'S FL60P-E HIGH INTEGRATED FLAT PANEL TERMINAL IN ITS HEILONGJIANG PROVINCE FOR EMERGENCY RESCUE AND DISASTER MANAGEMENT SITUATIONS

5.8.5 INTELSAT UTILIZED GILAT SATELLITE NETWORKS' FLAT PANEL ANTENNA FOR NON-MOBILE APPLICATIONS

5.9 PRICING ANALYSIS

FIGURE 28 AVERAGE SELLING PRICE (ASP) ANALYSIS

5.10 PATENT ANALYSIS

FIGURE 29 NUMBER OF PATENTS GRANTED FOR FLAT PANEL ANTENNAS IN A YEAR OVER LAST 11 YEARS (2011–2021)

5.11 LIST OF MAJOR PATENTS

TABLE 6 LIST OF MAJOR PATENTS GRANTED FOR FLAT PANEL ANTENNAS, 2021

5.12 TRADE DATA ANALYSIS

5.12.1 IMPORTS DATA

FIGURE 30 IMPORTS DATA FOR HS CODE 8529, BY COUNTRY, 2016–2020

TABLE 7 IMPORTS DATA FOR HS CODE 8529, BY COUNTRY, 2016–2020 (USD BILLION)

5.12.2 EXPORTS DATA

FIGURE 31 EXPORTS DATA FOR HS CODE 8529, BY COUNTRY, 2016–2020

TABLE 8 EXPORTS DATA FOR HS CODE 8542, BY COUNTRY, 2016–2020 (USD BILLION)

5.13 STANDARDS & REGULATIONS

5.13.1 NORTH AMERICA

5.13.2 EUROPE

5.13.3 GLOBAL

6 FLAT PANEL ANTENNA MARKET, BY TYPE

6.1 INTRODUCTION

FIGURE 32 FLAT PANEL ANTENNA MARKET, BY TYPE

FIGURE 33 MECHANICALLY STEERED FLAT PANEL ANTENNA TO ACCOUNT FOR LARGER MARKET SHARE

TABLE 9 FLAT PANEL ANTENNA MARKET, BY TYPE, 2018–2020 (USD MILLION)

TABLE 10 FLAT PANEL ANTENNA MARKET, BY TYPE, 2021–2027 (USD MILLION)

6.2 MECHANICALLY STEERED FLAT PANEL ANTENNA

6.2.1 MECHANICALLY STEERED ANTENNAS CAN PROVIDE BETTER BROADBAND SERVICE AT HIGHER LATITUDES

TABLE 11 MECHANICALLY STEERED FLAT PANEL ANTENNA MARKET, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 12 MECHANICALLY STEERED FLAT PANEL ANTENNA MARKET, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 13 MECHANICALLY STEERED FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)

TABLE 14 MECHANICALLY STEERED FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2021–2027 (USD MILLION)

TABLE 15 MECHANICALLY STEERED FLAT PANEL ANTENNA MARKET, BY REGION, 2018–2020 (USD MILLION)

TABLE 16 MECHANICALLY STEERED FLAT PANEL ANTENNA MARKET, BY REGION, 2021–2027 (USD MILLION)

6.3 ELECTRONICALLY STEERED FLAT PANEL ANTENNA

6.3.1 ELECTRONICALLY STEERED FPAS ARE EXPECTED TO GAIN TRACTION DUE TO COMPACT SIZE, LOW COST, AND SIGNIFICANT ADOPTION IN ENTERPRISE, MARITIME, LAND MOBILE, AND AVIATION APPLICATIONS

TABLE 17 ELECTRONICALLY STEERED FLAT PANEL ANTENNA MARKET, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 18 ELECTRONICALLY STEERED FLAT PANEL ANTENNA MARKET, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 19 ELECTRONICALLY STEERED FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)

TABLE 20 ELECTRONICALLY STEERED FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2021–2027 (USD MILLION)

TABLE 21 ELECTRONICALLY STEERED FLAT PANEL ANTENNA MARKET, BY REGION, 2018–2020 (USD MILLION)

TABLE 22 ELECTRONICALLY STEERED FLAT PANEL ANTENNA MARKET, BY REGION, 2021–2027 (USD MILLION)

6.3.1.1 Passive electronically scanned array (PESA)

6.3.1.2 Active electronically scanned arrays (AESA)

7 FLAT PANEL ANTENNA MARKET, BY FREQUENCY

7.1 INTRODUCTION

FIGURE 34 FLAT PANEL ANTENNA MARKET, BY FREQUENCY

FIGURE 35 KU, K, AND KA FREQUENCY BAND (13 GHZ–40 GHZ) TO LEAD FLAT PANEL ANTENNA MARKET

TABLE 23 FLAT PANEL ANTENNA MARKET, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 24 FLAT PANEL ANTENNA MARKET, BY FREQUENCY, 2021–2027 (USD MILLION)

7.2 C AND X BAND (4 GHZ–12 GHZ)

7.2.1 C AND X BAND FLAT PANEL ANTENNAS CAN BE USED WIDELY FOR GROUND SURVEILLANCE, ENVIRONMENTAL MONITORING, AND SECURITY PURPOSES

TABLE 25 C AND X BAND FLAT PANEL ANTENNA MARKET, BY TYPE, 2018–2020 (USD MILLION)

TABLE 26 C AND X BAND FLAT PANEL ANTENNA MARKET, BY TYPE, 2021–2027 (USD MILLION)

TABLE 27 C AND X BAND FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)

TABLE 28 C AND X BAND FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2021–2027 (USD MILLION)

TABLE 29 C AND X BAND FLAT PANEL ANTENNA MARKET, BY REGION, 2018–2020 (USD MILLION)

TABLE 30 C AND X BAND FLAT PANEL ANTENNA MARKET, BY REGION, 2021–2027 (USD MILLION)

7.3 KU, K, AND KA BAND (13 GHZ–40 GHZ)

7.3.1 KU, K, AND KA BAND FLAT PANEL ANTENNAS ARE EXPECTED TO BE WIDELY ADOPTED FOR LEO SATELLITE BROADBAND SYSTEMS

TABLE 31 KU, K, AND KA BAND FLAT PANEL ANTENNA MARKET, BY TYPE, 2018–2020 (USD MILLION)

TABLE 32 KU, K, AND KA BAND FLAT PANEL ANTENNA MARKET, BY TYPE, 2021–2027 (USD MILLION)

TABLE 33 KU, K, AND KA BAND FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)

TABLE 34 KU, K, AND KA BAND FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2021–2027 (USD MILLION)

TABLE 35 KU, K, AND KA BAND FLAT PANEL ANTENNA MARKET, BY REGION, 2018–2020 (USD MILLION)

TABLE 36 KU, K, AND KA BAND FLAT PANEL ANTENNA MARKET, BY REGION,

2021–2027 (USD MILLION)

8 FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION

8.1 INTRODUCTION

FIGURE 36 COMMERCIAL APPLICATION TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 37 FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2018–2020 (USD MILLION)

TABLE 38 FLAT PANEL ANTENNA MARKET, BY END-USE APPLICATION, 2021–2027 (USD MILLION)

8.2 AVIATION

8.2.1 FLAT PANEL SATELLITE ANTENNA TECHNOLOGY OFFERS LIGHTWEIGHT, LOW PROFILE, AND LOW MAINTENANCE SOLUTION FOR AIRCRAFT

TABLE 39 FLAT PANEL ANTENNA MARKET IN AVIATION, BY TYPE, 2018–2020 (USD MILLION)

TABLE 40 FLAT PANEL ANTENNA MARKET IN AVIATION, BY TYPE, 2021–2027 (USD MILLION)

TABLE 41 FLAT PANEL ANTENNA MARKET IN AVIATION, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 42 FLAT PANEL ANTENNA MARKET IN AVIATION, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 43 FLAT PANEL ANTENNA MARKET IN AVIATION, BY REGION, 2018–2020 (USD MILLION)

TABLE 44 FLAT PANEL ANTENNA MARKET IN AVIATION, BY REGION, 2021–2027 (USD MILLION)

8.3 TELECOMMUNICATION

8.3.1 RISING TRENDS OF SEAMLESS CONNECTIVITY FOR CONSUMER APPLICATIONS TO BOOST FLAT PANEL ANTENNA MARKET

TABLE 45 FLAT PANEL ANTENNA MARKET IN TELECOMMUNICATIONS, BY TYPE, 2018–2020 (USD MILLION)

TABLE 46 FLAT PANEL ANTENNA MARKET IN TELECOMMUNICATIONS, BY TYPE, 2021–2027 (USD MILLION)

TABLE 47 FLAT PANEL ANTENNA MARKET IN TELECOMMUNICATIONS, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 48 FLAT PANEL ANTENNA MARKET IN TELECOMMUNICATIONS, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 49 FLAT PANEL ANTENNA MARKET IN TELECOMMUNICATIONS, BY REGION, 2018–2020 (USD MILLION)

TABLE 50 FLAT PANEL ANTENNA MARKET IN TELECOMMUNICATIONS, BY REGION, 2021–2027 (USD MILLION)

8.4 MILITARY

8.4.1 MARINE AND DEFENSE APPLICATIONS TO FUEL GROWTH OF FLAT PANEL PHASED ARRAY ANTENNAS

TABLE 51 FLAT PANEL ANTENNA MARKET IN MILITARY, BY TYPE, 2018–2020 (USD MILLION)

TABLE 52 FLAT PANEL ANTENNA MARKET IN MILITARY, BY TYPE, 2021–2027 (USD MILLION)

TABLE 53 FLAT PANEL ANTENNA MARKET IN MILITARY, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 54 FLAT PANEL ANTENNA MARKET IN MILITARY, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 55 FLAT PANEL ANTENNA MARKET IN MILITARY, BY REGION, 2018–2020 (USD MILLION)

TABLE 56 FLAT PANEL ANTENNA MARKET IN MILITARY, BY REGION, 2021–2027 (USD MILLION)

8.5 COMMERCIAL

TABLE 57 FLAT PANEL ANTENNA MARKET IN COMMERCIAL, BY TYPE, 2018–2020 (USD MILLION)

TABLE 58 FLAT PANEL ANTENNA MARKET IN COMMERCIAL, BY TYPE, 2021–2027 (USD MILLION)

TABLE 59 FLAT PANEL ANTENNA MARKET IN COMMERCIAL, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 60 FLAT PANEL ANTENNA MARKET IN COMMERCIAL, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 61 FLAT PANEL ANTENNA MARKET IN COMMERCIAL, BY REGION, 2018–2020 (USD MILLION)

TABLE 62 FLAT PANEL ANTENNA MARKET IN COMMERCIAL, BY REGION, 2021–2027 (USD MILLION)

8.6 OTHERS

TABLE 63 FLAT PANEL ANTENNA MARKET IN OTHERS, BY TYPE, 2018–2020 (USD MILLION)

TABLE 64 FLAT PANEL ANTENNA MARKET IN OTHERS, BY TYPE, 2021–2027 (USD MILLION)

TABLE 65 FLAT PANEL ANTENNA MARKET IN OTHERS, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 66 FLAT PANEL ANTENNA MARKET IN OTHERS, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 67 FLAT PANEL ANTENNA MARKET IN OTHERS, BY REGION, 2018–2020
(USD MILLION)

TABLE 68 FLAT PANEL ANTENNA MARKET IN OTHERS, BY REGION, 2021–2027
(USD MILLION)

9 GEOGRAPHIC ANALYSIS

9.1 INTRODUCTION

FIGURE 37 FLAT PANEL ANTENNA MARKET IN APAC TO WITNESS HIGHEST
CAGR DURING FORECAST PERIOD

TABLE 69 FLAT PANEL ANTENNA MARKET, BY REGION, 2018–2020 (USD
MILLION)

TABLE 70 FLAT PANEL ANTENNA MARKET, BY REGION, 2021–2027 (USD
MILLION)

9.2 NORTH AMERICA

FIGURE 38 NORTH AMERICA: FLAT PANEL ANTENNA MARKET SNAPSHOT

TABLE 71 FLAT PANEL ANTENNA MARKET IN NORTH AMERICA, BY TYPE,
2018–2020 (USD MILLION)

TABLE 72 FLAT PANEL ANTENNA MARKET IN NORTH AMERICA, BY TYPE,
2021–2027 (USD MILLION)

TABLE 73 FLAT PANEL ANTENNA MARKET IN NORTH AMERICA, BY
FREQUENCY, 2018–2020 (USD MILLION)

TABLE 74 FLAT PANEL ANTENNA MARKET IN NORTH AMERICA, BY
FREQUENCY, 2021–2027 (USD MILLION)

TABLE 75 FLAT PANEL ANTENNA MARKET IN NORTH AMERICA, BY END-USER
APPLICATION, 2018–2020 (USD MILLION)

TABLE 76 FLAT PANEL ANTENNA MARKET IN NORTH AMERICA, BY END-USER
APPLICATION, 2021–2027 (USD MILLION)

TABLE 77 FLAT PANEL ANTENNA MARKET IN NORTH AMERICA, BY COUNTRY,
2018–2020 (USD MILLION)

TABLE 78 FLAT PANEL ANTENNA MARKET IN NORTH AMERICA, BY COUNTRY,
2021–2027 (USD MILLION)

9.2.1 US

9.2.1.1 Increasing spending by US defense organizations and private players drives
market

9.2.2 CANADA

9.2.2.1 Market growth in Canada is subjected to government-backed initiatives for
satellite communications

9.2.3 MEXICO

9.2.3.1 Use of flat panel antennas in commercial applications to augment market growth in Mexico

9.3 EUROPE

FIGURE 39 EUROPE: FLAT PANEL ANTENNA MARKET SNAPSHOT

TABLE 79 FLAT PANEL ANTENNA MARKET IN EUROPE, BY TYPE, 2018–2020 (USD MILLION)

TABLE 80 FLAT PANEL ANTENNA MARKET IN EUROPE, BY TYPE, 2021–2027 (USD MILLION)

TABLE 81 FLAT PANEL ANTENNA MARKET IN EUROPE, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 82 FLAT PANEL ANTENNA MARKET IN EUROPE, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 83 FLAT PANEL ANTENNA MARKET IN EUROPE, BY END-USER APPLICATION, 2018–2020 (USD MILLION)

TABLE 84 FLAT PANEL ANTENNA MARKET IN EUROPE, BY END-USER APPLICATION, 2021–2027 (USD MILLION)

TABLE 85 FLAT PANEL ANTENNA MARKET IN EUROPE, BY COUNTRY, 2018–2020 (USD MILLION)

TABLE 86 FLAT PANEL ANTENNA MARKET IN EUROPE, BY COUNTRY, 2021–2027 (USD MILLION)

9.3.1 GERMANY

9.3.1.1 Germany held second-largest market share in Europe in 2021 due to increasing popularity of multimedia applications, internet access, and mobile and fixed services

9.3.2 UK

9.3.2.1 Increasing number of LEO constellations and high-throughput satellites boost UK market

9.3.3 FRANCE

9.3.3.1 Deployment of advanced ground satellite communication systems fuels market in France

9.3.4 SPAIN

9.3.4.1 Space industry expected to propel market growth in Spain

9.3.5 REST OF EUROPE

9.4 ASIA PACIFIC (APAC)

FIGURE 40 APAC: FLAT PANEL ANTENNA MARKET SNAPSHOT

TABLE 87 FLAT PANEL ANTENNA MARKET IN APAC, BY TYPE, 2018–2020 (USD MILLION)

TABLE 88 FLAT PANEL ANTENNA MARKET IN APAC, BY TYPE, 2021–2027 (USD MILLION)

TABLE 89 FLAT PANEL ANTENNA MARKET IN APAC, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 90 FLAT PANEL ANTENNA MARKET IN APAC, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 91 FLAT PANEL ANTENNA MARKET IN APAC, BY END-USER APPLICATION, 2018–2020 (USD MILLION)

TABLE 92 FLAT PANEL ANTENNA MARKET IN APAC, BY END-USER APPLICATION, 2021–2027 (USD MILLION)

TABLE 93 FLAT PANEL ANTENNA MARKET IN APAC, BY COUNTRY, 2018–2020 (USD MILLION)

TABLE 94 FLAT PANEL ANTENNA MARKET IN APAC, BY COUNTRY, 2021–2027 (USD MILLION)

9.4.1 CHINA

9.4.1.1 Increasing use of SATCOM terminals in military applications drives market in China

9.4.2 JAPAN

9.4.2.1 Increased use of satellites and antennas for surveillance in Japan

9.4.3 INDIA

9.4.3.1 Increasing demand for satellite broadcast systems and telecommunication fuels market in India

9.4.4 SOUTH KOREA

9.4.4.1 Government support for domestic production provides market growth opportunities in South Korea

9.4.5 REST OF APAC

9.5 REST OF WORLD (ROW)

TABLE 95 FLAT PANEL ANTENNA MARKET IN ROW, BY TYPE, 2018–2020 (USD MILLION)

TABLE 96 FLAT PANEL ANTENNA MARKET IN ROW, BY TYPE, 2021–2027 (USD MILLION)

TABLE 97 FLAT PANEL ANTENNA MARKET IN ROW, BY FREQUENCY, 2018–2020 (USD MILLION)

TABLE 98 FLAT PANEL ANTENNA MARKET IN ROW, BY FREQUENCY, 2021–2027 (USD MILLION)

TABLE 99 FLAT PANEL ANTENNA MARKET IN ROW, BY END-USER APPLICATION, 2018–2020 (USD MILLION)

TABLE 100 FLAT PANEL ANTENNA MARKET IN ROW, BY END-USER APPLICATION, 2021–2027 (USD MILLION)

TABLE 101 FLAT PANEL ANTENNA MARKET IN ROW, BY REGION, 2018–2020 (USD MILLION)

TABLE 102 FLAT PANEL ANTENNA MARKET IN ROW, BY REGION, 2021–2027
(USD MILLION)

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

TABLE 103 OVERVIEW OF STRATEGIES DEPLOYED BY FLAT PANEL ANTENNA
MARKET ORIGINAL EQUIPMENT MANUFACTURERS (OEMS)

10.3 MARKET SHARE ANALYSIS, 2021

FIGURE 41 SHARE OF MAJOR PLAYERS IN FLAT PANEL ANTENNA MARKET,
2021

TABLE 104 FLAT PANEL ANTENNA MARKET: DEGREE OF COMPETITION

10.4 RANKING OF KEY PLAYERS IN FLAT PANEL ANTENNA MARKET

FIGURE 42 FLAT PANEL ANTENNA MARKET: RANKING OF KEY PLAYERS, 2021

10.5 COMPANY EVALUATION QUADRANT

10.5.1 STAR

10.5.2 PERVASIVE

10.5.3 EMERGING LEADER

10.5.4 PARTICIPANT

FIGURE 43 FLAT PANEL ANTENNA MARKET (GLOBAL):
COMPANY EVALUATION QUADRANT, 2021

10.6 START-UP/SME EVALUATION MATRIX

10.6.1 PROGRESSIVE COMPANY

10.6.2 RESPONSIVE COMPANY

10.6.3 DYNAMIC COMPANY

10.6.4 STARTING BLOCK

FIGURE 44 FLAT PANEL ANTENNA MARKET: STARTUP/SME EVALUATION
MATRIX, 2021

10.7 COMPETITIVE BENCHMARKING

TABLE 105 FLAT PANEL ANTENNA MARKET: DETAILED LIST OF KEY
STARTUP/SMES

TABLE 106 FLAT PANEL ANTENNA MARKET: COMPETITIVE BENCHMARKING OF
KEY STARTUP/SMES

10.8 FLAT PANEL ANTENNA MARKET: COMPANY FOOTPRINT

TABLE 107 FOOTPRINT OF COMPANIES

TABLE 108 APPLICATION FOOTPRINT OF COMPANIES

TABLE 109 PRODUCT FOOTPRINT OF COMPANIES

TABLE 110 REGIONAL FOOTPRINT OF COMPANIES

10.9 COMPETITIVE SCENARIO AND TRENDS

FIGURE 45 MARKET EVOLUTION FRAMEWORK: PRODUCT LAUNCHES AND DEVELOPMENTS, COLLABORATIONS, AND PARTNERSHIPS WERE MAJORLY ADOPTED STRATEGIES BY MARKET PLAYERS FROM 2019 TO 2022

10.9.1 NEW PRODUCT LAUNCHES AND DEVELOPMENTS

TABLE 111 FLAT PANEL ANTENNA MARKET: PRODUCT LAUNCHES AND DEVELOPMENTS, 2019–2021

10.9.2 DEALS

TABLE 112 FLAT PANEL ANTENNA MARKET: DEALS, 2019–2021

10.9.3 OTHERS

TABLE 113 FLAT PANEL ANTENNA MARKET: OTHERS, 2019–2021

11 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

11.1 KEY PLAYERS

11.1.1 KYMETA CORPORATION

TABLE 114 KYMETA CORPORATION: BUSINESS OVERVIEW

TABLE 115 KYMETA CORPORATION: PRODUCTS OFFERED

TABLE 116 KYMETA CORPORATION: PRODUCT LAUNCHES

TABLE 117 KYMETA CORPORATION: DEALS

11.1.2 HANWHA-PHASOR

TABLE 118 HANWHA-PHASOR: BUSINESS OVERVIEW

TABLE 119 HANWHA-PHASOR: PRODUCTS OFFERED

TABLE 120 HANWHA-PHASOR: DEALS

11.1.3 TTI NORTE

TABLE 121 TTI NORTE: BUSINESS OVERVIEW

TABLE 122 TTI NORTE: PRODUCTS OFFERED

TABLE 123 TTI NORTE: OTHERS

11.1.4 THINKOM SOLUTIONS

TABLE 124 THINKOM SOLUTIONS: BUSINESS OVERVIEW

TABLE 125 THINKOM SOLUTIONS: PRODUCTS OFFERED

TABLE 126 THINKOM SOLUTIONS: PRODUCT LAUNCHES

TABLE 127 THINKOM SOLUTIONS: DEALS

TABLE 128 THINKOM SOLUTIONS: OTHERS

11.1.5 L3HARRIS TECHNOLOGIES

TABLE 129 L3HARRIS TECHNOLOGIES: BUSINESS OVERVIEW

FIGURE 46 L3HARRIS TECHNOLOGIES: COMPANY SNAPSHOT

TABLE 130 L3HARRIS TECHNOLOGIES: PRODUCTS OFFERED

TABLE 131 L3HARRIS TECHNOLOGIES: PRODUCT LAUNCHES

TABLE 132 L3HARRIS TECHNOLOGIES: DEALS

TABLE 133 L3HARRIS TECHNOLOGIES: OTHERS

11.1.6 ISOTROPIC SYSTEMS

TABLE 134 ISOTROPIC SYSTEMS: BUSINESS OVERVIEW

TABLE 135 ISOTROPIC SYSTEMS: PRODUCTS OFFERED

TABLE 136 ISOTROPIC SYSTEMS: PRODUCT LAUNCHES

TABLE 137 ISOTROPIC SYSTEMS: DEALS

TABLE 138 ISOTROPIC SYSTEMS: OTHERS

11.1.7 L-COM GLOBAL CONNECTIVITY

TABLE 139 L-COM GLOBAL CONNECTIVITY: BUSINESS OVERVIEW

TABLE 140 L-COM GLOBAL CONNECTIVITY: PRODUCTS OFFERED

TABLE 141 L-COM GLOBAL CONNECTIVITY: PRODUCT LAUNCHES

11.1.8 ONEWEB

TABLE 142 ONEWEB: BUSINESS OVERVIEW

TABLE 143 ONEWEB: PRODUCTS OFFERED

TABLE 144 ONEWEB: DEALS

11.1.9 ST ENGINEERING IDIRECT

TABLE 145 ST ENGINEERING IDIRECT: BUSINESS OVERVIEW

TABLE 146 ST ENGINEERING IDIRECT: PRODUCTS OFFERED

TABLE 147 ST ENGINEERING IDIRECT: PRODUCT LAUNCHES

TABLE 148 ST ENGINEERING IDIRECT: DEALS

TABLE 149 ST ENGINEERING IDIRECT: OTHERS

11.1.10 CHINA STARWIN SCIENCE&TECHNOLOGY

TABLE 150 CHINA STARWIN SCIENCE&TECHNOLOGY: BUSINESS OVERVIEW

TABLE 151 CHINA STARWIN SCIENCE&TECHNOLOGY: PRODUCTS OFFERED

TABLE 152 CHINA STARWIN SCIENCE&TECHNOLOGY: PRODUCT LAUNCHES

TABLE 153 CHINA STARWIN SCIENCE&TECHNOLOGY: OTHERS

11.2 OTHER PLAYERS

11.2.1 SATPRO TECH

11.2.2 GILAT SATELLITE NETWORKS

11.2.3 RADIOWAVES, AN INFINITE ELECTRONICS COMPANY

11.2.4 BALL AEROSPACE

11.2.5 NXT COMMUNICATIONS CORPORATION

11.2.6 AICAN SYSTEMS

11.2.7 C-COM SATELLITE SYSTEMS INC.

11.2.8 INMARSAT

11.2.9 COBHAM AEROSPACE COMMUNICATION

11.2.10 MTI WIRELESS EDGE LIMITED

*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.3 AVAILABLE CUSTOMIZATIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS

I would like to order

Product name: Flat Panel Antenna Market with Covid-19 Impact by Type (Electronically Steered, Mechanically Steered), Frequency (C and X, Ku, K, Ka), End-Use Application (Aviation, Telecommunications, Military) and Region - Global Forecast to 2027

Product link: <https://marketpublishers.com/r/FC2D67307C7AEN.html>

Price: US\$ 4,950.00 (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/FC2D67307C7AEN.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