

Antenna Market By Technology Type (SIMO, MIMO, MISO, Others), By Application (Cellular systems, Radar, WiFi Systems, Others), By End User (Consumer Electronics, Healthcare, Aerospace and Defense, Telecommunication, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-09-01 | 235 pages | Allied Market Research

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Report description:

An antenna constitutes a foundational element within electromagnetic systems, engineered to transmit and receive radio waves, thereby enabling wireless communication and information exchange across diverse technological domains. It acts as an intermediary interface connecting electronic devices with the ambient electromagnetic surroundings, converting electric currents into electromagnetic waves that propagate through the air or alternative mediums. The central objective of an antenna revolves around proficiently emitting and capturing these electromagnetic signals, thereby facilitating the transmission and reception of communication forms such as data and voice.??

Antennas exhibit a plethora of sizes and shapes, each meticulously tailored to distinct frequencies and specific applications. Their significance spans critical sectors encompassing telecommunications, broadcasting, radar systems, navigation, and satellite communication, among others. The efficacy of an antenna hinges upon variables such as its physical dimensions, structural design, and harmonization with the sought-after frequency range. Notably, select antennas, including directional and phased-array variants, possess the capacity to concentrate radiation patterns toward particular directions, thereby amplifying communication reach and precision.??

Antenna technology has undergone substantial evolution over time, encompassing a spectrum of types such as dipole, monopole, loop, patch, Yagi-Uda, parabolic, and helical antennas. As technological progress marches forward, antennas seamlessly embed themselves within an array of devices, ranging from smartphones, routers, and satellites to medical apparatus, automotive systems, and even wearable gadgets. The perpetual refinement of antenna design continues to wield substantial influence in heightening wireless connectivity, augmenting data transfer speeds, and solidifying signal dependability, thereby contributing to the interconnected and harmonious global environment the user encounter.??

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The antenna market is expected to witness notable growth during the forecast period, owing to the emergence of the internet of things (IoT) and machine-to-machine interfaces in different verticals of businesses. The rapid increase in the number of connected devices and growing inclination toward high-speed internet connectivity is fueling the adoption of 5G networks. Technological advancements in wireless communications, such as long-term evolution (LTE), enhanced mobility, and mobile data traffic surge, are driving the penetration of 5G technology. The surge in penetration of 5G network is acting as a major driver influencing the growth of the antenna market. However, lack of skilled employees and high construction and maintenance costs for the infrastructure required to support flat panel antennas are projected to hinder the antenna market growth. On the other hand, rise in demand for low-power wide-area (LPWA) networks in IoT applications are key factors driving the growth of the antenna market.??

The Antenna market is segmented into technology type, application, end user, and region. On the basis of technology type, the market is classified into SIMO, MIMO, MISO, and others. In 2022, the MIMO segment dominated the market, and is expected to acquire a major market share by 2032. On the basis of application, the market is categorized into cellular systems, radar, Wi-Fi systems, and others. The cellular systems segment acquired the largest share in 2022 and radar segment is expected to grow at a significant CAGR from 2023 to 2032. On the basis of end user, the market is segregated into consumer electronics, healthcare, aerospace & defense, telecommunication, and others. In 2022, the telecommunication segment dominated the market, and is expected to acquire a major market share by 2032.??

On the basis of region, the Antenna Market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (the UK, Germany, France, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).??

Competitive analysis and profiles of the major global Antenna market players that have been provided in the report include Amphenol Corporation, Antcom, Antenova Ltd., Molex (Koch Industries), Panorama Antennas, PCTEL, Pulse Electronics (YAGEO Group), Shenzhen Xinwei Communication Co., Ltd., STI-CO, and TE Connectivity. The key strategies adopted by the major players of the Antenna market are product launch, acquisition, and business expansion.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the antenna market analysis from 2022 to 2032 to identify the prevailing 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 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 antenna market trends, key players, market segments, application areas, and market growth strategies.

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- Investment Opportunities
- Distributor margin Analysis
- Go To Market Strategy
- New Product Development/ Product Matrix of Key Players
- Regulatory Guidelines
- Additional company profiles with specific to client's interest
- Additional country or region analysis- market size and forecast
- Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Key Market Segments

By Technology Type

- SIMO
- MIMO
- MISO
- Others

By Application

- Cellular systems
- Radar
- WiFi Systems
- Others

By End User

- Consumer Electronics
- Healthcare
- Aerospace and Defense
- Telecommunication
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- UK
- Germany
- France
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East

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- Africa
- Key Market Players
- Antcom Corporation
- TE Connectivity Ltd.
- Antenova Ltd.
- Molex
- Panorama Antennas
- STI-CO
- Amphenol Corporation
- Pulse Electronics Corporation
- Shenzhen Xinwei Communication Co., Ltd.
- PCTEL, Inc.

Table of Contents:

CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 1.4. Research Methodology
 - 1.4.1. Primary research
 - 1.4.2. Secondary research
 - 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
- 3.3. Porter's five forces analysis
 - 3.3.1. Moderate bargaining power of suppliers
 - 3.3.2. Low threat of new entrants
 - 3.3.3. Moderate threat of substitutes
 - 3.3.4. Low intensity of rivalry
 - 3.3.5. Moderate bargaining power of buyers
- 3.4. Market dynamics
 - 3.4.1. Drivers
 - 3.4.1.1. Increase in adoption of antenna in Internet of Things devices
 - 3.4.1.2. Increase in adoption of antenna in consumer electronics industry drives market growth
 - 3.4.2. Restraints
 - 3.4.2.1. Lack of uniform frequency range for wireless applications
 - 3.4.3. Opportunities
 - 3.4.3.1. Development of 5G
- 3.5. COVID-19 Impact Analysis on the market

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CHAPTER 4: ANTENNA MARKET, BY TECHNOLOGY TYPE

4.1. Overview

4.1.1. Market size and forecast

4.2. SIMO

4.2.1. Key market trends, growth factors and opportunities

4.2.2. Market size and forecast, by region

4.2.3. Market share analysis by country

4.3. MIMO

4.3.1. Key market trends, growth factors and opportunities

4.3.2. Market size and forecast, by region

4.3.3. Market share analysis by country

4.4. MISO

4.4.1. Key market trends, growth factors and opportunities

4.4.2. Market size and forecast, by region

4.4.3. Market share analysis by country

4.5. Others

4.5.1. Key market trends, growth factors and opportunities

4.5.2. Market size and forecast, by region

4.5.3. Market share analysis by country

CHAPTER 5: ANTENNA MARKET, BY APPLICATION

5.1. Overview

5.1.1. Market size and forecast

5.2. Cellular systems

5.2.1. Key market trends, growth factors and opportunities

5.2.2. Market size and forecast, by region

5.2.3. Market share analysis by country

5.3. Radar

5.3.1. Key market trends, growth factors and opportunities

5.3.2. Market size and forecast, by region

5.3.3. Market share analysis by country

5.4. WiFi Systems

5.4.1. Key market trends, growth factors and opportunities

5.4.2. Market size and forecast, by region

5.4.3. Market share analysis by country

5.5. Others

5.5.1. Key market trends, growth factors and opportunities

5.5.2. Market size and forecast, by region

5.5.3. Market share analysis by country

CHAPTER 6: ANTENNA MARKET, BY END USER

6.1. Overview

6.1.1. Market size and forecast

6.2. Consumer Electronics

6.2.1. Key market trends, growth factors and opportunities

6.2.2. Market size and forecast, by region

6.2.3. Market share analysis by country

6.3. Healthcare

6.3.1. Key market trends, growth factors and opportunities

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- 6.3.2. Market size and forecast, by region
- 6.3.3. Market share analysis by country
- 6.4. Aerospace and Defense
 - 6.4.1. Key market trends, growth factors and opportunities
 - 6.4.2. Market size and forecast, by region
 - 6.4.3. Market share analysis by country
- 6.5. Telecommunication
 - 6.5.1. Key market trends, growth factors and opportunities
 - 6.5.2. Market size and forecast, by region
 - 6.5.3. Market share analysis by country
- 6.6. Others
 - 6.6.1. Key market trends, growth factors and opportunities
 - 6.6.2. Market size and forecast, by region
 - 6.6.3. Market share analysis by country

CHAPTER 7: ANTENNA MARKET, BY REGION

- 7.1. Overview
 - 7.1.1. Market size and forecast By Region
- 7.2. North America
 - 7.2.1. Key market trends, growth factors and opportunities
 - 7.2.2. Market size and forecast, by Technology Type
 - 7.2.3. Market size and forecast, by Application
 - 7.2.4. Market size and forecast, by End User
 - 7.2.5. Market size and forecast, by country
 - 7.2.5.1. U.S.
 - 7.2.5.1.1. Market size and forecast, by Technology Type
 - 7.2.5.1.2. Market size and forecast, by Application
 - 7.2.5.1.3. Market size and forecast, by End User
 - 7.2.5.2. Canada
 - 7.2.5.2.1. Market size and forecast, by Technology Type
 - 7.2.5.2.2. Market size and forecast, by Application
 - 7.2.5.2.3. Market size and forecast, by End User
 - 7.2.5.3. Mexico
 - 7.2.5.3.1. Market size and forecast, by Technology Type
 - 7.2.5.3.2. Market size and forecast, by Application
 - 7.2.5.3.3. Market size and forecast, by End User
- 7.3. Europe
 - 7.3.1. Key market trends, growth factors and opportunities
 - 7.3.2. Market size and forecast, by Technology Type
 - 7.3.3. Market size and forecast, by Application
 - 7.3.4. Market size and forecast, by End User
 - 7.3.5. Market size and forecast, by country
 - 7.3.5.1. UK
 - 7.3.5.1.1. Market size and forecast, by Technology Type
 - 7.3.5.1.2. Market size and forecast, by Application
 - 7.3.5.1.3. Market size and forecast, by End User
 - 7.3.5.2. Germany
 - 7.3.5.2.1. Market size and forecast, by Technology Type

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- 7.3.5.2.2. Market size and forecast, by Application
- 7.3.5.2.3. Market size and forecast, by End User
- 7.3.5.3. France
 - 7.3.5.3.1. Market size and forecast, by Technology Type
 - 7.3.5.3.2. Market size and forecast, by Application
 - 7.3.5.3.3. Market size and forecast, by End User
- 7.3.5.4. Rest of Europe
 - 7.3.5.4.1. Market size and forecast, by Technology Type
 - 7.3.5.4.2. Market size and forecast, by Application
 - 7.3.5.4.3. Market size and forecast, by End User
- 7.4. Asia-Pacific
 - 7.4.1. Key market trends, growth factors and opportunities
 - 7.4.2. Market size and forecast, by Technology Type
 - 7.4.3. Market size and forecast, by Application
 - 7.4.4. Market size and forecast, by End User
 - 7.4.5. Market size and forecast, by country
 - 7.4.5.1. China
 - 7.4.5.1.1. Market size and forecast, by Technology Type
 - 7.4.5.1.2. Market size and forecast, by Application
 - 7.4.5.1.3. Market size and forecast, by End User
 - 7.4.5.2. Japan
 - 7.4.5.2.1. Market size and forecast, by Technology Type
 - 7.4.5.2.2. Market size and forecast, by Application
 - 7.4.5.2.3. Market size and forecast, by End User
 - 7.4.5.3. India
 - 7.4.5.3.1. Market size and forecast, by Technology Type
 - 7.4.5.3.2. Market size and forecast, by Application
 - 7.4.5.3.3. Market size and forecast, by End User
 - 7.4.5.4. South Korea
 - 7.4.5.4.1. Market size and forecast, by Technology Type
 - 7.4.5.4.2. Market size and forecast, by Application
 - 7.4.5.4.3. Market size and forecast, by End User
 - 7.4.5.5. Rest of Asia-Pacific
 - 7.4.5.5.1. Market size and forecast, by Technology Type
 - 7.4.5.5.2. Market size and forecast, by Application
 - 7.4.5.5.3. Market size and forecast, by End User
- 7.5. LAMEA
 - 7.5.1. Key market trends, growth factors and opportunities
 - 7.5.2. Market size and forecast, by Technology Type
 - 7.5.3. Market size and forecast, by Application
 - 7.5.4. Market size and forecast, by End User
 - 7.5.5. Market size and forecast, by country
 - 7.5.5.1. Latin America
 - 7.5.5.1.1. Market size and forecast, by Technology Type
 - 7.5.5.1.2. Market size and forecast, by Application
 - 7.5.5.1.3. Market size and forecast, by End User
 - 7.5.5.2. Middle East

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- 7.5.5.2.1. Market size and forecast, by Technology Type
- 7.5.5.2.2. Market size and forecast, by Application
- 7.5.5.2.3. Market size and forecast, by End User
- 7.5.5.3. Africa
 - 7.5.5.3.1. Market size and forecast, by Technology Type
 - 7.5.5.3.2. Market size and forecast, by Application
 - 7.5.5.3.3. Market size and forecast, by End User

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top winning strategies
- 8.3. Product Mapping of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top player positioning, 2022

CHAPTER 9: COMPANY PROFILES

- 9.1. PCTEL, Inc.
 - 9.1.1. Company overview
 - 9.1.2. Key Executives
 - 9.1.3. Company snapshot
 - 9.1.4. Operating business segments
 - 9.1.5. Product portfolio
 - 9.1.6. Business performance
 - 9.1.7. Key strategic moves and developments
- 9.2. Amphenol Corporation
 - 9.2.1. Company overview
 - 9.2.2. Key Executives
 - 9.2.3. Company snapshot
 - 9.2.4. Operating business segments
 - 9.2.5. Product portfolio
 - 9.2.6. Business performance
 - 9.2.7. Key strategic moves and developments
- 9.3. Antcom Corporation
 - 9.3.1. Company overview
 - 9.3.2. Key Executives
 - 9.3.3. Company snapshot
 - 9.3.4. Operating business segments
 - 9.3.5. Product portfolio
 - 9.3.6. Key strategic moves and developments
- 9.4. Antenova Ltd.
 - 9.4.1. Company overview
 - 9.4.2. Key Executives
 - 9.4.3. Company snapshot
 - 9.4.4. Operating business segments
 - 9.4.5. Product portfolio
 - 9.4.6. Key strategic moves and developments
- 9.5. Molex
 - 9.5.1. Company overview

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- 9.5.2. Key Executives
- 9.5.3. Company snapshot
- 9.5.4. Operating business segments
- 9.5.5. Product portfolio
- 9.6. Panorama Antennas
 - 9.6.1. Company overview
 - 9.6.2. Key Executives
 - 9.6.3. Company snapshot
 - 9.6.4. Operating business segments
 - 9.6.5. Product portfolio
- 9.7. Pulse Electronics Corporation
 - 9.7.1. Company overview
 - 9.7.2. Key Executives
 - 9.7.3. Company snapshot
 - 9.7.4. Operating business segments
 - 9.7.5. Product portfolio
 - 9.7.6. Business performance
 - 9.7.7. Key strategic moves and developments
- 9.8. Shenzhen Xinwei Communication Co., Ltd.
 - 9.8.1. Company overview
 - 9.8.2. Key Executives
 - 9.8.3. Company snapshot
 - 9.8.4. Operating business segments
 - 9.8.5. Product portfolio
- 9.9. STI-CO
 - 9.9.1. Company overview
 - 9.9.2. Key Executives
 - 9.9.3. Company snapshot
 - 9.9.4. Operating business segments
 - 9.9.5. Product portfolio
 - 9.9.6. Key strategic moves and developments
- 9.10. TE Connectivity Ltd.
 - 9.10.1. Company overview
 - 9.10.2. Key Executives
 - 9.10.3. Company snapshot
 - 9.10.4. Operating business segments
 - 9.10.5. Product portfolio
 - 9.10.6. Business performance
 - 9.10.7. Key strategic moves and developments

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