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Chip Antenna Market Research Report- Global Forecast 2032

Report / Search Code: MRFR/SEM/1053-HCR Publish Date: October, 2023

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Description:

Global Chip Antenna Market Overview:

Chip Antenna Market Size was valued at USD 2.9 billion in 2022. The Chip Antenna market industry is projected to grow from USD3.2567 Billion in 2023 to USD 8.237886504 billion by 2032, exhibiting a compound annual growth rate (CAGR) of 16.26% during the forecast period (2023 - 2032). The expanding consumer electronics industry, increasing adoption of automation, and high demand for consumer electronics are the key market drivers enhancing market growth.

Chip Antenna Market

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Chip Antenna Market Trends

- **Surge in the adoption of chip antennas in small electronics is driving Market growth.**

The chip antenna market is expected to grow significantly in the coming years, driven by the surge in the adoption of chip antennas in small electronic devices. Chip antennas are small, lightweight, and low-cost, making them ideal for small electronic devices such as smartphones, tablets, and wearable devices. Several factors are driving the adoption of chip antennas in small electronic devices. First, the increasing demand for smaller and more portable electronic devices makes chip antennas attractive. Second, the rising popularity of wireless connectivity is also driving the demand for chip antennas. Chip antennas are essential for wireless connectivity, as they allow devices to transmit and receive signals over the air. Finally, the falling prices of chip antennas make them more affordable for a wider range of devices. As the prices of chip antennas continue to fall, it is expected that even more small electronic devices will adopt this technology. This factor drives the Market CAGR.

Additionally, the chip antenna market is expected to grow significantly over the forecast period as the Internet of Things (IoT) and machine-to-machine interfaces emerge across multiple verticals. The rapid increase in connected devices and the increasing preference for high-speed internet connections drive the adoption of 5G networks. Advances in wireless communications, such as Long Term Evolution (LTE), advanced mobility, and mobile data, drive the use of 5G technology. The miniaturization of electronic equipment has become more obvious; chip antennas are increasingly used in wireless communication equipment, and small antennas are increasingly used instead of large-sized antennas to reduce equipment costs. Demand for chip antennas in the Internet of Things Wi-Fi, Bluetooth, etc. With the development of wireless communication technical standards, the importance of radio antennas in low-power areas is increasing. Estimated time. The increase in 5G network penetration is an important factor influencing the growth of the chip antenna market.

Factors affecting the growth of the chip antenna market include the use of chip antennas in IoT devices. Additionally, an increasing number of small antennas in the electronics industry are expected to drive the growth of large chip antennas. Thus, driving the Chip Antenna market revenue.

Chip Antenna Market Segment Insights:

Chip Antenna End-User Insights

The Chip Antenna Market segmentation, based on End-User, includes BFSI, Government, Healthcare, Transportation, Manufacturing, IT & telecommunication. The IT & telecommunication segment dominated the market because IT & telecommunication is the largest market for chip antennas. The IT & telecommunication market is large. This means a large demand for chip antennas for IT & telecommunication devices. Chip antennas are critical in IT & telecommunication devices to enable wireless connectivity. Furthermore, some governments have regulations that require IT & telecommunication devices

to use chip antennas. This is to help ensure the security and reliability of wireless communications.

Chip Antenna Application Insights

The Chip Antenna Market segmentation, based on Application, includes Bluetooth, ISM, and WLAN. The WLAN segment dominated the market; WLAN is a wireless networking technology that uses radio waves to connect devices within a local area. WLAN devices include smartphones, tablets, laptops, and routers. The WLAN segment is expected to remain the dominant segment of the chip antenna market in the coming years. This is due to the continued growth of the WLAN market and the high demand for effective and cost-effective chip antennas.

Chip Antenna Type Insights

The Chip Antenna Market segmentation, based on type, includes ceramic multilayer chips and dielectric chips. The ceramic multilayer chips segment dominated the market because ceramic multilayer chips offer several advantages over dielectric chips. Ceramic multilayer chips are made of a stack of ceramic layers sandwiched together. The layers are typically made of different materials, which allow the chip to operate over a wider frequency range. The ceramic multilayer chip segment is expected to remain the dominant segment of the chip antenna market in the coming years. This is due to the continued demand for high-performance chip antennas in WLAN, Bluetooth, and ISM applications.

Figure1: Chip Antenna Market, by Type, 2022 & 2032 (USD billion)

Chip Antenna Market, by Type, 2022 & 2032

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Chip Antenna Regional Insights

Segmented by region, the study provides market insights for North America, Europe, Asia Pacific, and the rest of the world. The North American Chip Antenna market will dominate this market, owing to the rising adoption of developed technologies and the high spending on research and development of wireless transmission technologies, which will boost the market growth in this region.

In addition, major countries examined in the report market include the United States, Canada, Germany, France, United Kingdom, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure2: GLOBAL CHIP ANTENNA MARKET SHARE BY REGION 2022 (%)

GLOBAL CHIP ANTENNA MARKET SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Europe Chip Antenna market accounts for the second-largest market share due to the district's high populace thickness and innovative headway. Further, the German Chip Antenna market held the largest market share, and the UK Chip Antenna market was the fastest-growing market in the European region.

The Asia-Pacific Chip Antenna Market is expected to grow at the largest CAGR from 2023 to 2032. This is due to the high adoption of automation and the increasing consumer electronics industry in emerging countries in the region. Moreover, China's Chip Antenna market held the largest market share, and the Indian Chip Antenna market was the largest growing market in the Asia-Pacific region.

Chip Antenna Key Market Players & Competitive Insights

Leading manufacturers are investing heavily in R&D to expand their product range, which will contribute to the further growth of the antenna chip. Entrepreneurs are also undertaking various activities to expand their global footprint. Key business development activities include new product development, contract deals, joint venture mergers and acquisitions, increased investment, and collaboration with other organizations. The chip antenna business must deliver quality products to grow and survive in a more competitive and increasing business environment.

Manufacturing locally to minimize operational costs is one of the key business tactics manufacturers use in the global Chip Antenna industry to benefit clients and increase the market sector. The Chip Antenna industry has offered some of the most significant advantages in recent years. Major players in the Chip Antenna market, including Antenova M2M (UK), Fractus Antennas (Spain), Johanson Technology Inc. (USA), Mitsubishi Materials (Japan), Pulse Electronics (USA), Partron Co. Ltd. (South Korea), Taoglas (Ireland), Vishay Intertechnology Inc. (USA), and Yageo Corporation (Taiwan)., and Others are trying to keep up with market demand by investing in R&D activities.

Impinj, Inc. is a manufacturer of radio frequency identification equipment and software. The company was founded in 2000 and is headquartered in Seattle, Washington. The company was founded due to research by Carver Mead and Chris Diorio at Caltech. Impinj has announced the development of its new Impinj Core 3D antenna, which uses a design that enables omnidirectional reading of the company's M700 series chips, easy placement, and label development, and further improving readability, accuracy, and reliability.

AVX Corporation is an American electronics company headquartered in Fountain Inn, South Carolina. With nearly 1,000 employees in Myrtle Beach and Conway, South Carolina is the largest employer in Horry County. AVX has 9,900 employees operating in the United States, Europe, and Asia. AVX Corporation is an American electronics company headquartered in Fountain Inn, South Carolina. With nearly 1,000 employees in Myrtle Beach and Conway, South Carolina is the largest employer in Horry County.

Key Companies in the Chip Antenna market include

- Antenova M2M (UK)
- Fractus Antennas (Spain)
- Johanson Technology Inc. (USA)
- Mitsubishi Materials (Japan)
- Pulse Electronics (USA)
- Patron Co. Ltd. (South Korea)
- Taoglas (Ireland)
- Vishay Intertechnology Inc. (USA)
- Yageo Corporation (Taiwan)

Chip Antenna Industry Developments

November 2022: Impinj has announced the development of its new Impinj Core 3D antenna, which uses a design that enables omnidirectional reading of the company's M700 series chips, easy placement, and label development, and further improving readability, accuracy, and reliability.

March 2022: Kyocera AVX, a manufacturer of advanced electronic components, is exhibiting its passive component solutions optimized for RF and optical communication at the 2022 Optical Fiber Communication Conference and Exhibition. The company will highlight new ultra-broadband capacitors, ultraminiature multilayer ceramic chip inductors, and proven ultra-broadband resistors and single-layer ceramic capacitors.

Chip Antenna Market Segmentation:

Chip Antenna End-User Outlook

- BFSI
- Government
- Healthcare
- Transportation
- Manufacturing
- IT & telecommunication

Chip Antenna Application Outlook

- Bluetooth

- ISM
- WLAN

Chip Antenna Type Outlook

- Ceramic Multilayer Chip
- Dielectric chip

Chip Antenna Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 -

- South Korea
-
- Australia
-
- Rest of Asia-Pacific
-
- Rest of the World
-
- Middle East
-
- Africa
-
- Latin America

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