Chip Antenna - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Chip Antenna Market is expected to register a CAGR of 11.91% during the forecast period.

Key Highlights
- The market is expected to be further augmented by the exponential growth of mobile data traffic, driven by data-capable devices and high-bandwidth applications (APPs). According to Ericsson, the total number of 5G subscriptions stood at approximately 664.18 million in 2021 and is anticipated to reach 4.39 billion by 2027.
- Moreover, according to a survey by Honeywell, 67% of manufacturing executives are going forward with their plans to invest in data analytics. 63% believe that it enables well-informed decisions in real-time, 57% believe that it limits waste, and 56% say it helps predict the risk of downtime (56%). This is expected to further aid the future growth of Internet of Things (IoT) in the manufacturing sector.
- Rapid developments are being witnessed in the market to support 5G communication chip solutions. For instance, recently, Samsung Electronics introduced its latest 8nm RF solution development which will provide up to a 35% increase in power efficiency and a 35% decrease in a logic area compared to 14nm RF.
- Due to the market's rapid growth, a number of vendors are receiving funding from national and international players for product development and innovation. For instance, in May 2022, Pharrowtech announced a series A funding of EUR 15 million to continue developing next-generation 60 GHz wireless RF transceivers and antenna technology.
- The COVID-19 pandemic outbreak affected the market in multiple ways. The chip production foundries are gradually recovering from the impact of the pandemic in major manufacturing centers like China. Moreover, the rapid deployment of 5G is expected to aid the market growth of the market studied. Further, 5G's emergence as an independent network and the rapid expansion of 5G smartphones from flagship-only models to the mid-range segment is expected to aid market growth.

Chip Antenna Market Trends

Increasing use of Chip Antennas in IoT Applications

- The growing deployment of IoT across end-user segments is expected to act as a significant driver of the market. IoT in manufacturing is being deployed to facilitate the production flow in a plant, as IoT devices automatically monitor development cycles and manage warehouses and inventories. It is one reason investment in IoT devices has skyrocketed over the past few decades. By 2025, the number of connected devices in the automation sector is expected to increase by 50.
- The increasing need for data analysis and analytics integration is expected to propel the utilization of the Internet of Things market in retail. Additionally, owing to the ease of shopping and smartphone penetration, the use of e-commerce platforms is rapidly increasing, which is likely to boost the market.
- For instance, Amazon's first store in Seattle, the United States, is incorporated with a self-checkout service and mobile payment methods available on Android and iOS systems. The store is equipped with cameras, sensors, and RFID readers, to identify shoppers and products and use computer vision, deep learning algorithms, and the sensor fusion.
- According to a report from IoT for All, the market for the IoT is anticapted to grow 18% to 14.4 billion active connections, whereas it is expected to reach approximately 27 billion connected IoT devices by 2025.
- The proliferation of 5G is also expected to aid the growth of IoT across significant application areas. According to Small Cell Forum, the total installed base of 5G in 2025 is predicted to be 13.1 million, over one-third of the total in use. Further, as per Cisco Systems, the number of connected wearable devices is anticipated to reach more than one billion by 2022.

Asia-Pacific is Expected to be the Fastest Growing Market during the Forecast Period

- The Asia-Pacific region accounts for a significant expenditure in IoT technology, with South Korea and Singapore expected to be among the top global markets to adopt IoT chips. As per the data from the Organization for Economic Co-operation and Development, South Korea is the first country in the world to have more things connected to the Internet per habitat, followed by Denmark and Switzerland.
- Further, India's vision to transform 100 cities into smart cities is expected to create a huge demand for IoT devices in smart homes and the automotive sector. This is also an essential factor contributing to the market growth in this region.
- The Japanese government has announced the Integrated Innovative Strategy 2022, which lays out the plan to achieve the country's goals. In the 6th Science, Technology and Innovation Basic Plan, Japan set the goal of reaching 120 trillion yen in R&D investment between the public and private sectors over the five years from fiscal 2021, aiming to realize Society 5.0.
- According to a Microsoft IoT Signals report, the Asia-Pacific region has been a prominent manufacturing base, and the sector continues to be a strong adopter of the Internet of Things (IoT). The COVID-19 pandemic has driven even more significant investment across different industries as IoT becomes more tightly integrated with other technologies.

Chip Antenna Industry Overview

The chip antenna market is highly fragmented. The market is witnessing a number of market launches due to the evolution of 5G and IoT. Some of the key developments in the market are as follows:-

In September 2022, Arm Ltd, a chip technology firm, launched its data center chip technology to meet the growth of data from 5G and IoT. Arm 5G Solutions Lab is working with leaders in the 5G ecosystem, like Google Cloud, Marvell, NXP, and Vodafone, to

accelerate 5G networks on Arm.

In May 2022, Pharrowtech announced the closure of its EUR 15 million (USD 16.04 million) series A funding round for the development of next-generation 60GHz wireless RF transceiver and antenna technology. The funding will allow the company to accelerate deployment of its recently launched 60 GHz CMOS Radio-Frequency Integrated Circuit (RFIC) PTR1060, and phased array antenna Radio-Frequency Module (RFM) PTM1060 for 5G unlicensed fixed wireless access, wireless infrastructure, and consumer applications.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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