

# Smart Antenna Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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## Abstracts

The global smart antenna market size reached US\$ 5.4 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 8.9 Billion by 2027, exhibiting a growth rate (CAGR) of 8.8% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic. These insights are included in the report as a major market contributor.

Smart antenna refers to an adaptive array device used for the transmission and reception of multiple radio frequency (RF) waves to increase data speed and reduce the error rate. It is used with smart signal processing algorithms to facilitate wireless communications. It combines the signals from multiple receivers and controls the transmission and reception of signals, capacity and coverage in mobile wireless networks. The antenna also suppresses the interfering signals, broadens the range and optimizes directional beam pattern. As a result, it finds extensive applications across various industries, including telecommunication, information technology (IT), automotive and defense.

The global smart antenna market is primarily being driven by the increasing requirement for faster data transmission systems across industries. Smart antennas are widely used for multiple access interference, range extension, power control, minimizing signal fading and multipath management for efficient wireless communications. Moreover, the widespread utilization of devices, such as smartphones, laptops and personal digital assistants (PDAs), is providing a thrust to the market growth. These devices are equipped with various multimedia and internet functionalities that require high-speed internet and innovative communications systems. In line with this, the availability of signal customization facilities in smart antennas is also contributing to the growth of the

market. Additionally, the development of automotive smart antennas is acting as another major growth-inducing factor. These antennas are used in commercial and passenger vehicles for satellite-based navigation and improving vehicle networking. Other factors, including significant growth in the IT industry, along with extensive research and development (R&D) activities, are anticipated to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global smart antenna market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on technology and application.

#### Breakup by Technology:

- SIMO
- MIMO
- MISO

#### Breakup by Application:

- Wi-Fi Systems
- WiMAX Systems
- Cellular Systems
- RADAR Systems

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan
  - India
  - South Korea
- Australia
- Indonesia
- Others
- Europe

Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ADTRAN Inc, Airgain Inc., AirNet Communications Corporation, Arraycom LLC, Intel Corporation, Linx Technologies, Motorola Solutions Inc, Qualcomm Incorporated, Sierra Wireless, Telstra Corporation Limited, Texas Instruments Incorporated and Trimble Inc.

#### Key Questions Answered in This Report:

How has the global smart antenna market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global smart antenna market?

What are the key regional markets?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global smart antenna market and who are the key players?

What is the degree of competition in the industry?

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