

# **Global Massive MIMO Market by Technology (LTE Advanced, LTE Advanced Pro, 5G), Type of Antennas (8T8R, 16T16R & 32T32R, 64T64R, 128T128R & Above), Spectrum (TDD, FDD, Others (FBMC, OFDM)), and Regional Analysis, 2022-2029**

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## **Abstracts**

Global Massive MIMO Market is valued at approximately USD 6.32 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 41.6% over the forecast period 2022-2029. Multiple-Input Many-Output (MIMO) is a term used to describe a network where multiple data signals can be sent and received over the same radio channel while using distinct antennas for each signal. The benefit of this network is that it multiplexes wireless connection capacity while utilising less spectrums. Further, the government for MIMO systems application rapidly increases, as well as rising demand of innovative and efficient software for strong network connectivity among customers across the forecast period. Also, with the evolution of this technique the Communication Industry is expected to fuel the demand for Massive MIMO systems.

The rapid proliferation of 5G network technologies is acting as a major catalyzing factor for market growth. For instance. The GSMA, an organization that represents mobile network operators worldwide, estimates that investments in 5G networks reach around USD 1 trillion globally by 2025. As well, it is anticipated that the worldwide investment cycle for 5G networks would be longer than that for 4G, implying that 4G and 5G coexists until 2030. Therefore, the rising penetration of the 5G network technologies is acting as a catalyzing factor for the market growth across the globe. Moreover, the increasing requirement for high throughput and long-range applications, as well as rapid advancements in 4G LTE & 4.5G data models are presenting various lucrative opportunities over the forecasting years. However, lack of professionals for spectrum allocation in the developing countries and unavailability of standard platforms are the

major factors that are hindering the market growth. Further, the major challenge for Massive MIMO market is advancement of the massive MIMO infrastructure as it affects the economic dimensions and manufacturing of equipment.

The key regions considered for the Global Massive MIMO Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. Asia-Pacific is the leading region across the world in terms of market share owing to the intense elevation in number of smart phone users. Also, Asia Pacific is fastest growing region due to factors such as rising government mandates and growing communication and information technology infrastructure including 4G LTE or 5G are key factors that are leveraging various growth prospects in the regional market over the forecasting period.

Major market player included in this report are:

Nokia Corporation

Telefonaktiebolaget LM Ericsson

Huawei Technologies Co., Ltd.

Verizon Communications Inc.

ZTE Corporation

Sprint Corporation

China Mobile Communications Group Co., Ltd.

Samsung Group

Bharti Airtel Limited

Deutsche Telekom AG

Recent Developments in the Market:

In January 2023, Mavenir announced the introduction of a Fixed Wireless Access (FWA) solution that supports massive MIMO radio technology and 5G millimeter-wave (mmWave) frequency bands.

Global Massive MIMO Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Technology, Type of Antennas, Spectrum, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working

hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

LTE Advanced

LTE Advanced Pro

5G

By Types of Antennas:

8T8R

16T16R & 32T32R

64T64R

128T128R & Above

By Spectrum:

FDD

TDD

Others (FBMC, OFDM)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
RoLA  
Rest of the World

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