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# Massive MIMO Market by Technology (LTE Advanced, LTE Advanced Pro, 5G), Spectrum (TDD, FDD), Type of Antennas (8T8R, 16T16R & 32T32R, 64T64R, 128T128R & Above), and Geography (North America, Europe, Asia Pacific, Row) - Global Forecast to 2026

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## Abstracts

“The global massive MIMO market is expected to exhibit significant growth between 2018 and 2026.”

The massive MIMO market is expected to grow from USD 1.29 billion in 2018 to USD 20.91 billion by 2026, at a CAGR of 41.6% between 2018 and 2026. The key factor driving the growth of the massive MIMO market is the rising importance of software implementation in a communication network, high signal to noise ratio, and link reliability. However, delay in the standardization of spectrum allocation is restraining the growth of the market.

“The 5G technology segment is expected to witness the fastest growth during the forecast period.”

The 5G segment is expected to witness the fastest growth from 2020-2026. With future 5G deployments, massive MIMO is expected to enable new high-frequency bands that suffer high propagation path losses to deliver similar coverage as low frequencies. 5G is expected to offer significant gains to accommodate more users at higher data rates with better reliability while consuming less power.

“Based on type of antennas, the 64T64R segment is expected to lead the massive MIMO market during the forecast period.”

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The 64T64R type of antennas segment is expected to grow at the highest CAGR between 2018 and 2026. Most companies in the massive MIMO market use the 64T64R antenna in their testing and deployment, which is the major factor for the large market size of the 64T64R segment. Several key companies such as Sprint use 64T64R antennas to increase the capacity of the massive MIMO.

“The massive MIMO market in APAC is projected to grow at the highest CAGR during the forecast period.”

The massive MIMO market in APAC is expected to grow at the highest CAGR during the forecast period. The presence of leading massive MIMO vendors such as Huawei, ZTE, China Mobile, Samsung, and China Unicom is a key factor driving the massive MIMO market in Asia Pacific. Furthermore, Japan, China, and India play a significant role in the massive MIMO market and have the maximum 4G LTE penetration rate.

The break-up of the profiles of primary participants for the report has been given below:

By Company Type: Tier 1 = 56%, Tier 2 = 23%, and Tier 3 = 21%

By Designation: C–Level Executives = 75% and Directors = 25%

By Region: North America = 40%, Europe = 23%, APAC = 26%, and RoW = 11%

Key players operating in the massive MIMO market include Xilinx (US), Intel (US), Lattice Semiconductor (US), Microsemi (US), TSMC (Taiwan), Microchip Technology (US), United Microelectronics (Taiwan), QuickLogic (US), GLOBALFOUNDRIES(US), Achronix (US), and S2C Inc. (US).

Research Coverage:

The research report on the global massive MIMO market covers the market on the basis of spectrum, technology, type of antennas, and geography. Based on spectrum, the massive MIMO market has been segmented into TDD, FDD, and others. The massive MIMO market on the basis of technology has been segmented into LTE Advanced, LTE Advanced Pro, and 5G. The massive MIMO market on the basis of type of antennas has been segmented into 8T8R, 16T16R & 32T32R, 64T64R, 128T128R & Above. The report segments the market into 4 major regions, namely North America, Europe, Asia

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Pacific, and RoW.

Key Benefits of Buying the Report:

Illustrative segmentation, analysis, and forecast for the market based on spectrum, technology, type of antennas, and geography have been conducted to give an overall view of the massive MIMO market.

Major drivers, restraints, opportunities, and challenges for the massive MIMO market have been detailed in this report.

The report includes a detailed competitive landscape, along with key players, in-depth analysis, and revenue of key players.

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# About

According to the new market research report "Massive MIMO Market by Technology (LTE Advanced, LTE Advanced Pro, 5G), Spectrum (TDD, FDD), Type of Antennas (8T8R, 16T16R & 32T32R, 64T64R, 128T128R & Above), and Geography (North America, Europe, Asia Pacific, Row) - Global Forecast to 2026", the Massive MIMO market is estimated to be USD 1.29 Billion in 2018 and is expected to reach USD 20.91 Billion by 2026, at a CAGR of 41.6% between 2018 and 2026. The rising importance of software implementation in a communication network, high signal to noise ratio, and link reliability are some of the drivers for the massive MIMO market.

**Some of the major players in the massive MIMO market include:**

Nokia

Ericsson

Huawei

ZTE

Verizon

Sprint

Airtel

China Mobile

Deutsche Telekom

**On the basis of technology, LTE Advanced led the massive MIMO market in 2017**

The LTE Advanced technology segment accounted for the largest share of the massive MIMO market in 2017. LTE Advanced supports carrier load and higher order MIMO techniques and also supports a data rate of 1 Gbps in the downlink and 500 Mbps in the uplink direction.

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**Based on spectrum, the TDD segment is expected to lead the massive MIMO market during the forecast period**

TDD provides greater capacity and lower cost per bit as compared to FDD. With high data rates and a huge capacity for data and HD voice, TDD significantly improves customer experience and lowers the operator's cost per bit. TDD also provides spectrum flexibility.

**Based on type of antennas, the 128T128R & above segment is expected to grow at the highest CAGR between 2018 and 2026**

The 128T128R & above segment includes 128T128R and 256T256R antenna types. The massive MIMO technology assures significant gains in both data rates and link reliability. Extra antennas help by focusing the transmission and reception of signal energy on smaller regions of space. This brings huge improvements in throughput and energy efficiency, particularly when combined with simultaneous scheduling of a large number of user terminals (tens or hundreds).

**The massive MIMO market in APAC is expected to grow at the highest CAGR between 2018 and 2026**

APAC is expected to be the fastest-growing massive MIMO market. Factors such as reduced latency, high data rate, along with inexpensive and low power components are expected to drive the massive MIMO market in Asia Pacific. Furthermore, Australia, Japan, China, South Korea, and Japan play a significant role in the LTE market and have the maximum 4G LTE penetration rate. This has led to an increased demand for massive MIMO in the telecommunication sector of the APAC.

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