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5G Radio Access Network Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Architecture Type, By Deployment, By End-user, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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5G Radio Access Network Market Growth & Trends

The global 5G radio access network market size is expected to reach USD 57.13 billion by 2030, according to a new report by Grand View Research, Inc. The market is anticipated to expand at a CAGR of 21.1% from 2022 to 2030. Radio access networks (RAN) comprise wireless telecommunications systems, including antennas and base stations, to provide high performing 5G network solutions. It utilizes 5G radio frequency division duplex (FDD) frequencies to connect individual devices through radio connections providing wireless connectivity.

The increasing demand for low latency bandwidth connection and increased focus on research and development activities by key organizations are some of the factors fueling the market growth. This high market size is attributable to the growing deployment of private 5G RAN and core equipment across several use cases. These use cases include smart cities, remote surgeries, enterprises, wireless cameras, industrial robotics, and autonomous vehicles.

RAN encompasses different types, viz. evolved universal terrestrial RAN (E-UTRAN), Universal Radio Access Network (UTRAN), Virtualized Radio Access Network (VRAN), and Open Radio Access Network (ORAN), among others. The robust deployment of a

5G radio access network (RAN) with several small cells and macrocell base stations worldwide is propelling the growth of the market. The RAN base stations within a public mobile network are connected to a public mobile core network through microwave or fiber cables to aggregate signals. The latest RANs offer controllers utilizing software-defined networks (SDN), allowing them to control cellular device capacity and coverage.

The trend of deploying centralized RAN and virtual RAN (VRAN) is rapidly increasing among mobile network operators (MNOs) and network service providers to reduce overall infrastructure costs and network complexities. Rapidly evolving RAN technologies have enabled several key telecom operators and end-use customers to deploy the virtualized network to diminish overall operating expenses. Also, several market players such as Qualcomm Technologies, Inc., Nokia, Verizon, and Cisco Systems, Inc., among others, are significantly focused on providing RAN solutions for private 5G networks, which help clients to transform their existing legacy network infrastructure into the next generation 5G network.

The outbreak of COVID-19 has significantly impacted the global economy and, subsequently, 5G roll-out and 5G RAN deployments. During 2020, there was a notable decline in the imports and exports of 5G hardware equipment from key countries such as the U.S., China, and other key European countries. Therefore, it further hindered the worldwide deployment process of the next-generation network infrastructure. The growth of the 5G RAN market was also impeded due to security concerns in maintaining network data, operational continuity, and new traffic patterns.

A few companies working in 5G RAN are Telefonaktiebolaget LM Ericsson, Qualcomm Technologies, Inc., Nokia, Intel Corporation, Samsung, Verizon, Cisco Systems, Inc., Huawei Technologies Co., Ltd., VMware, Inc., Rakuten Symphony Singapore Pte. Ltd, among others. In October 2022, Qualcomm Technologies, Inc. announced a collaboration with Vodafone Group to develop and integrate next-generation 5G radio units and distributed units with massive multiple-input multiple-output capabilities. The companies are also developing 5G ORAN infrastructure solutions powered by Qualcomm QRU100 5G radio access network platform and Qualcomm X100 5G RAN accelerator card.

5G Radio Access Network Market Report Highlights

Radio access networks comprise wireless telecommunications systems, including antennas and base stations, to provide high performing 5G network solutions.

The robust deployment of a 5G radio access network (RAN) with several small cells and macrocell base stations worldwide is propelling the growth of the market

The trend of deploying centralized RAN and virtual RAN (VRAN) is rapidly increasing among mobile network operators (MNOs) and network service providers to reduce overall infrastructure costs and network complexities

In terms of components, the hardware segment is expected to dominate the market and expand at a CAGR of 18.8% from 2022 to 2030

The 5G ORAN market is projected to grow at the highest CAGR of 31.4% within the architecture type, during the forecast period

In terms of deployment, the outdoor deployment of 5G RAN is expected to dominate in 2021, gaining a market share of more than 60%

The enterprise segment is projected to grow at the highest CAGR of 29.4% within the end-user of the 5G RAN market during the forecast period

The primary source markets for 5G RAN are the U.S., Japan, China, India, the U.K., Canada, Germany, France, and Brazil. The U.S. will be the primary source market for 5G RAN companies

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