

Global Cloud Radio Access Network Market Size study & Forecast, by Component (Solution, Services), by Network Type (2G/3G, 4G, 5G), by Deployment (Indoor, Outdoor), by End User (Telecom Operators, Enterprises) and Regional Analysis, 2023-2030

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Abstracts

Global Cloud Radio Access Network Market is valued at approximately USD 17.21 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 21.20% over the forecast period 2023-2030. Cloud Radio Access Network is a network architecture that centralizes and virtualizes baseband processing functions of multiple remote radio heads, enabling more efficient and flexible management of wireless networks. The Cloud Radio Access Network Market is expanding because of factors such as an increase in the demand for 5G network technologies and increased in mobile data traffic. Moreover, the increase in mobile data usage, primarily due to the rising popularity of smartphones, video streaming, and emerging technologies like IoT and 5G, has generated a strong demand for scalable and efficient network solutions such as C-RAN.

The growing demand for 5G networks is increasing the adoption of Cloud radio access network (C-RAN) solutions as they provide scalability, flexibility, and improved network performance required for 5G deployments. According to Statista in 2023, the global number of 5G subscriptions is projected to reach approximately 1.9 billion and expected to reach up to approximately 5.9 billion by 2027. In addition, growing numbers of internet users and technological advancements in cloud radio access networks would create a lucrative growth opportunity. However, the necessity for a high capacity fronthaul and high implementation costs stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Cloud Radio Access Network Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market during the forecast period owing to the, increasing internet penetration and increasing number of key market players from telecommunications sector. Asia Pacific is the fastest growing region during the forecast period, owing to factors such as, expanding telecommunications infrastructure, increasing mobile data traffic, and rising demand for efficient network solutions in the region.

Major market player included in this report are:

Nokia Corporation

Samsung Electronics Co. Ltd.

Huawei Technologies Co. Ltd.

Cisco Systems Inc.

Fujitsu Ltd.

Red Hat Inc.

CommScope Holding Company Inc.

Ciena Corporation

Hewlett Packard Enterprise Development LP

Dell, Inc.

Recent Developments in the Market:

In June 2020, Nokia Corporation introduced a cutting-edge 5G AirScale Cloud RAN solution built on vRAN 2.0. This innovative solution empowers operators to generate profits from 5G wireless services while also enabling network slicing from end to end. It effectively caters to the needs of IoT applications and leverages the advantages of cloud computing in the radio access network.

In April 2022, Fujitsu Network Communications, Inc. partnered with Meta Connectivity to increase the global adoption of open radio access network (Open RAN) technologies. As part of this collaboration, Fujitsu may provide 5G massive MIMO (Multiple Input, Multiple Output) Radio Units (RU) to the Evenstar project. This initiative, led by Meta Connectivity and international business partners, aims to accelerate the implementation of Open RAN technologies that comply with the 3GPP standards.

Global Cloud Radio Access Network Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape,

Growth factors, and Trends

Segments Covered – Component, Network, Deployment, End-User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

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 Component:

Solution

Services

By Network:

2G/3G

4G

5G

by Deployment

Indoor

Outdoor

By End-User:

Telecom Operators

Enterprises

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

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Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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