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# Open RAN Market Size, Share & Trends Analysis Report By Component, By Unit, By Deployment, By Network, By Frequency, By Region (North America, Europe, Asia Pacific, Latin Americ, MEA) And Segment Forecasts, 2025 - 2030

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## Abstracts

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Open RAN Market Growth & Trends

The global open RAN market size is estimated treach USD 20.41 billion by 2030, registering a CAGR of 25.6% from 2025 t2030, according ta new report by Grand View Research, Inc. An open radiaccess network (O-RAN or Open RAN) is a concept based on the standardization and interoperability of RAN elements, including open-source software elements and a unified interconnection standard for white-box hardware from various vendors. Increasing adoption of open RAN hardware and software owing ttheir numerous benefits, such as improved network performance, lower equipment costs, improved security, and network flexibility, is a major factor driving the growth of the market.

In addition, the increasing commercialization of 5G services and demand for O-RAN from mobile operators are further driving the market's growth. The O-RAN technology and architecture reduce mobile network deployment and maintenance costs by encouraging competition among vendors and streamlining network management. It alsreduces the need for costly proprietary hardware and enables operators tsource components from multiple vendors. This multi-vendor ecosystem ultimately saves costs and enhances network resiliency. Furthermore, open RAN is transforming the telecommunications industry by incorporating modern cloud and software technologies, ultimately propelling the market's growth.

Furthermore, the robust deployment of a 5G radiaccess network with several macrocells and small cell base stations and the introduction of open RAN components by several players worldwide is propelling the growth of the market. For instance, in October 2022, Vodafone Group Plc and Qualcomm Technologies, Inc. announced their partnership tdevelop, integrate, and test next-generation 5G radiunits (RU) and distributed units (DUs) with Massive MIMO capabilities tmeet the demands of the modern networks and tprovide the commercial deployment of O-RAN in Europe.The growing demand for low latency and high-speed bandwidth connection and the increased focus of major organizations on research and development activities are some of the factors boosting the market growth.

In addition, the increasing deployment of 5G open RAN and core equipment across numerous applications, such as remote surgeries, smart cities, industrial robotics, enterprises, wireless cameras, and autonomous vehicles is further driving the growth of the market. The global deployment of O-RAN faced substantial delays during the COVID-19 pandemic due tfactors, such as reduced network infrastructure spending and a limited workforce. Telecom providers prioritized focused capacity coverage rather than large-scale deployments due tthe scarcity of investments and resources. However, post-pandemic, owing tthe growing digital transformation & demand for 5G services, countries and companies are eagerly investing in integrating and developing O-RAN technology inttheir telecommunications infrastructure. This, in turn, is expected timprove the market growth.

Open RAN Market Report Highlights

The services segment is expected tregister the fastest CAGR over the forecast period due tthe growing demand for specialized expertise and support in managing & deploying O-RAN infrastructure

The radiunit (RU) segment dominated the market in 2024. In the O-RAN infrastructure, RU handles the physical radifunctions and connects tthe user equipment

The public cloud segment accounted for the significant market share in 2024. High demand for cloud-native O-RAN architecture, as it provides flexibility, security, and scalability tnetworks,supports the segment’s

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growth

In 2024, the 5G network segment held the largest revnue share in the global market. There is an increasing development of virtualized 5G RAN solutions for communication service providers (CSPs) as it offers improved flexibility and operational efficiency tfulfill the demands of their 5G customers

The mmWave segment is expected tgrow at the significant CAGR during the forecast period. The growing demand for low-latency and high-speed wireless communications is driving the adoption of mmWave frequencies in the market

Asia Pacific is expected tgrow at the significant CAGR over the forecast period, due tthe vast presence of O-RAN hardware and software providers and the growing market for IT and telecommunications in countries, such as China India, and Japan.

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# Contents

## CHAPTER 4. OPEN RAN NETWORK: COMPONENT ESTIMATES & TREND ANALYSIS



## CHAPTER 5. OPEN RAN NETWORK: UNIT ESTIMATES & TREND ANALYSIS



## CHAPTER 6. OPEN RAN NETWORK: DEPLOYMENT ESTIMATES & TREND ANALYSIS

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**CHAPTER 7. OPEN RAN NETWORK: NETWORK ESTIMATES & TREND ANALYSIS**



**CHAPTER 8. OPEN RAN NETWORK: FREQUENCY ESTIMATES & TREND ANALYSIS**



**CHAPTER 9. OPEN RAN NETWORK: REGIONAL ESTIMATES & TREND ANALYSIS**

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