

# Fifth Generation (5G) Radio Access Network Market Size To Reach \$51.58 Billion

*The Business Research Company's Fifth Generation (5G) Radio Access Network Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

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/EINPresswire.com/ -- How Big Is the Fifth Generation (5G) Radio Access Network Market and How Fast Is It Growing?

The [fifth-generation \(5G\) radio access network market](#) has witnessed remarkable growth and is poised for further expansion. In 2024, the market was valued at \$19.33 billion and is expected to reach \$23.58 billion in 2025, growing at a compound annual growth rate (CAGR) of 22.0%. The forecast for 2029 projects a market size of \$51.58 billion, driven by increasing demand for high-speed internet, the widespread adoption of 5G technologies, and advancements in mobile network capabilities.

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What Are the Key Trends Shaping the Fifth Generation (5G) Radio Access Network Market?

Several trends are driving the development of 5G radio

access networks. These include:

- Technological advancements: Cloud-native RAN, non-terrestrial network integration, and open RAN (ORAN) technologies are gaining traction.
- Expansion of small cells and dense networks: This is vital for supporting the vast number of devices expected in the 5G ecosystem.
- Sustainability focus: With growing concerns about energy consumption, there is a move towards green networks and sustainable deployment practices.

What Is Driving the [Fifth Generation \(5G\) Radio Access Network Market's Growth?](#)

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The primary driver of the 5G RAN market is the increasing demand for high-speed internet and seamless connectivity. With the surge in digitalization and the need for robust communication systems, the demand for reliable and fast internet is accelerating. The integration of technologies such as Massive MIMO (multiple-input, multiple-output) antennas and the rise of network slicing are enhancing the overall efficiency and user experience.

Who Are the Leading Players in the Fifth Generation (5G) Radio Access Network Market?

The market is dominated by several key players, including:

- Samsung Electronics Co. Ltd.
- Huawei Technologies Co. Ltd.
- Verizon Communications Inc.
- Intel Corporation
- Cisco Systems Inc.
- Qualcomm Technologies Inc.
- Telefonaktiebolaget LM Ericsson
- Nokia Corporation

These companies are driving innovation and implementing large-scale deployments across the globe.

What Are the Segments in the Fifth Generation (5G) Radio Access Network Market?

The 5G radio access network market is segmented as follows:

- By Component: Hardware, Software, Services
- By Architecture Type: Centralized Radio Access Network (CRAN), Open Radio Access Network (ORAN), Virtualized Radio Access Network (VRAN)
- By Deployment: Indoor, Outdoor
- By End-User: Telecom Operators, Enterprises

Hardware Subsegments:

- Radio Units (RU)
- Distributed Antenna Systems (DAS)
- Small Cells (Femtocells, Picocells, Microcells)
- Massive MIMO Antennas
- Baseband Units (BBU)

Software Subsegments:

- Network Virtualization Software
- Cloud RAN (C-RAN) Software
- AI-Based Network Optimization Software
- Network Slicing Software
- SDN (Software-Defined Networking) Solutions

Services Subsegments:

- Deployment and Integration Services

- Network Optimization and Maintenance Services
- Managed Services
- Consulting and Advisory Services
- Training and Support Services

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Which Regions Are Leading the Fifth Generation (5G) Radio Access Network Market Expansion?

The Asia-Pacific region leads the global market, accounting for a significant share due to large-scale deployments in countries like China, India, and Japan. Other major regions include:

- North America
- Western Europe
- Eastern Europe
- Middle East and Africa
- South America

The adoption of 5G technologies is widespread across these regions, with specific emphasis on the U.S., South Korea, and China, where infrastructure investments are substantial.

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