

# Global 5G V-RAN Market Research Report 2024(Status and Outlook)

<https://marketpublishers.com/r/GAB758E8D318EN.html>

Date: December 2024

Pages: 102

Price: US\$ 2,800.00 (Single User License)

ID: GAB758E8D318EN

## Abstracts

### Report Overview

5G Virtualized Radio Access Network (V-RAN) is a cutting-edge technology that revolutionizes traditional RAN architecture by virtualizing network functions and centralizing baseband processing. This innovative approach enhances network flexibility, scalability, and cost-efficiency, making it a key enabler for the deployment of 5G networks. V-RAN allows operators to dynamically allocate network resources, optimize network performance, and support various services efficiently.

The current market size for 5G V-RAN in 2023 stands at approximately USD 780 million. The projected Compound Annual Growth Rate (CAGR) for the period 2024-2032 is estimated at 58.75%, showcasing a robust growth trajectory. This growth is primarily driven by the increasing demand for high-speed connectivity, the proliferation of IoT devices, and the need for network virtualization to support diverse 5G use cases.

One of the key growth drivers for the 5G V-RAN market is the rapid adoption of 5G technology globally. As more countries roll out 5G networks, the demand for V-RAN solutions is expected to surge. Additionally, the scalability and flexibility offered by V-RAN architectures make them ideal for handling the massive data traffic generated by 5G applications, further fueling market growth.

Market trends in the 5G V-RAN space include the rise of Open RAN architectures, which promote interoperability between network components from different vendors. This trend enhances vendor diversity, reduces vendor lock-in, and fosters innovation in the RAN space. Another trend is the integration of Artificial Intelligence (AI) and

Machine Learning (ML) algorithms into V-RAN systems to optimize network performance, predict failures, and automate network management tasks.

Furthermore, the deployment of edge computing in conjunction with V-RAN is gaining traction, enabling low-latency applications and improving user experience. Edge computing brings processing closer to end-users, reducing latency for real-time applications like autonomous vehicles and augmented reality.

In terms of regional market distribution, leading markets for 5G V-RAN include North America, Asia Pacific, and Europe. North America dominates the market due to early 5G deployments, strong investment in network infrastructure, and a competitive landscape driving innovation. Asia Pacific follows closely, driven by the rapid digital transformation in countries like China, South Korea, and Japan. Europe is also a significant market, with regulatory support for Open RAN initiatives and a focus on enhancing network efficiency.

Key challenges facing the 5G V-RAN market include interoperability issues between legacy systems and virtualized networks, security concerns related to virtualized environments, and the complexity of managing virtualized network functions. Overcoming these challenges will require collaboration between industry stakeholders, investment in cybersecurity measures, and ongoing standardization efforts to ensure seamless integration of V-RAN solutions.

In conclusion, the 5G V-RAN market is poised for substantial growth driven by the increasing adoption of 5G technology, the emergence of Open RAN architectures, and the integration of AI and edge computing. As operators continue to invest in network modernization and optimization, leveraging V-RAN solutions will be crucial to unlocking the full potential of 5G networks and meeting the evolving demands of the digital economy.

This report provides a deep insight into the global 5G V-RAN market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the

Global 5G V-RAN Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the 5G V-RAN market in any manner.

### Global 5G V-RAN Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

### Key Company

FUjtsu

Hewlett Packard Enterprise Development

Huawei Technologies

Intel

Juniper Networks

Mavenir Systems

Microsemi Corporation

MTI Mobile

NEC Corporation

Nokia Corporation

## Market Segmentation (by Type)

Radio Unit

Distributed Unit

Central Unit

Others

## Market Segmentation (by Application)

Residential

Commercial

## Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

## Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the 5G V-RAN Market

Overview of the regional outlook of the 5G V-RAN Market:

#### Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the 5G V-RAN Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream

and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

#### 1.1 Market Definition and Statistical Scope of 5G V-RAN

#### 1.2 Key Market Segments

##### 1.2.1 5G V-RAN Segment by Type

##### 1.2.2 5G V-RAN Segment by Application

#### 1.3 Methodology & Sources of Information

##### 1.3.1 Research Methodology

##### 1.3.2 Research Process

##### 1.3.3 Market Breakdown and Data Triangulation

##### 1.3.4 Base Year

##### 1.3.5 Report Assumptions & Caveats

### **2 5G V-RAN MARKET OVERVIEW**

#### 2.1 Global Market Overview

#### 2.2 Market Segment Executive Summary

#### 2.3 Global Market Size by Region

#### 2.4 Macroeconomic Analysis

### **3 5G V-RAN MARKET COMPETITIVE LANDSCAPE**

#### 3.1 Global 5G V-RAN Revenue Market Share by Company (2019-2024)

#### 3.2 5G V-RAN Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

#### 3.3 Company 5G V-RAN Market Size Sites, Area Served, Product Type

#### 3.4 5G V-RAN Market Competitive Situation and Trends

##### 3.4.1 5G V-RAN Market Concentration Rate

##### 3.4.2 Global 5 and 10 Largest 5G V-RAN Players Market Share by Revenue

##### 3.4.3 Mergers & Acquisitions, Expansion

### **4 5G V-RAN VALUE CHAIN ANALYSIS**

#### 4.1 5G V-RAN Value Chain Analysis

#### 4.2 Midstream Market Analysis

#### 4.3 Downstream Customer Analysis

### **5 THE DEVELOPMENT AND DYNAMICS OF 5G V-RAN MARKET**



- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Market Restraints
- 5.5 Industry News
  - 5.5.1 Mergers & Acquisitions
  - 5.5.2 Expansions
  - 5.5.3 Collaboration/Supply Contracts
- 5.6 Industry Policies

## **6 5G V-RAN MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global 5G V-RAN Market Size Market Share by Type (2019-2024)
- 6.3 Global 5G V-RAN Market Size Growth Rate by Type (2019-2024)

## **7 5G V-RAN MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global 5G V-RAN Market Size (M USD) by Application (2019-2024)
- 7.3 Global 5G V-RAN Market Size Growth Rate by Application (2019-2024)

## **8 5G V-RAN MARKET SEGMENTATION BY REGION**

- 8.1 Global 5G V-RAN Market Size by Region
  - 8.1.1 Global 5G V-RAN Market Size by Region
  - 8.1.2 Global 5G V-RAN Market Size Market Share by Region
- 8.2 North America
  - 8.2.1 North America 5G V-RAN Market Size by Country
  - 8.2.2 U.S.
  - 8.2.3 Canada
  - 8.2.4 Mexico
- 8.3 Europe
  - 8.3.1 Europe 5G V-RAN Market Size by Country
  - 8.3.2 Germany
  - 8.3.3 France
  - 8.3.4 U.K.
  - 8.3.5 Italy

#### 8.3.6 Russia

### 8.4 Asia Pacific

#### 8.4.1 Asia Pacific 5G V-RAN Market Size by Region

##### 8.4.2 China

##### 8.4.3 Japan

##### 8.4.4 South Korea

##### 8.4.5 India

##### 8.4.6 Southeast Asia

### 8.5 South America

#### 8.5.1 South America 5G V-RAN Market Size by Country

##### 8.5.2 Brazil

##### 8.5.3 Argentina

##### 8.5.4 Columbia

### 8.6 Middle East and Africa

#### 8.6.1 Middle East and Africa 5G V-RAN Market Size by Region

##### 8.6.2 Saudi Arabia

##### 8.6.3 UAE

##### 8.6.4 Egypt

##### 8.6.5 Nigeria

##### 8.6.6 South Africa

## 9 KEY COMPANIES PROFILE

### 9.1 FUjtsu

#### 9.1.1 FUjtsu 5G V-RAN Basic Information

#### 9.1.2 FUjtsu 5G V-RAN Product Overview

#### 9.1.3 FUjtsu 5G V-RAN Product Market Performance

#### 9.1.4 FUjtsu 5G V-RAN SWOT Analysis

#### 9.1.5 FUjtsu Business Overview

#### 9.1.6 FUjtsu Recent Developments

### 9.2 Hewlett Packard Enterprise Development

#### 9.2.1 Hewlett Packard Enterprise Development 5G V-RAN Basic Information

#### 9.2.2 Hewlett Packard Enterprise Development 5G V-RAN Product Overview

#### 9.2.3 Hewlett Packard Enterprise Development 5G V-RAN Product Market Performance

#### 9.2.4 Hewlett Packard Enterprise Development 5G V-RAN SWOT Analysis

#### 9.2.5 Hewlett Packard Enterprise Development Business Overview

#### 9.2.6 Hewlett Packard Enterprise Development Recent Developments

### 9.3 Huawei Technologies

- 9.3.1 Huawei Technologies 5G V-RAN Basic Information
- 9.3.2 Huawei Technologies 5G V-RAN Product Overview
- 9.3.3 Huawei Technologies 5G V-RAN Product Market Performance
- 9.3.4 Huawei Technologies 5G V-RAN SWOT Analysis
- 9.3.5 Huawei Technologies Business Overview
- 9.3.6 Huawei Technologies Recent Developments
- 9.4 Intel
  - 9.4.1 Intel 5G V-RAN Basic Information
  - 9.4.2 Intel 5G V-RAN Product Overview
  - 9.4.3 Intel 5G V-RAN Product Market Performance
  - 9.4.4 Intel Business Overview
  - 9.4.5 Intel Recent Developments
- 9.5 Juniper Networks
  - 9.5.1 Juniper Networks 5G V-RAN Basic Information
  - 9.5.2 Juniper Networks 5G V-RAN Product Overview
  - 9.5.3 Juniper Networks 5G V-RAN Product Market Performance
  - 9.5.4 Juniper Networks Business Overview
  - 9.5.5 Juniper Networks Recent Developments
- 9.6 Mavenir Systems
  - 9.6.1 Mavenir Systems 5G V-RAN Basic Information
  - 9.6.2 Mavenir Systems 5G V-RAN Product Overview
  - 9.6.3 Mavenir Systems 5G V-RAN Product Market Performance
  - 9.6.4 Mavenir Systems Business Overview
  - 9.6.5 Mavenir Systems Recent Developments
- 9.7 Microsemi Corporation
  - 9.7.1 Microsemi Corporation 5G V-RAN Basic Information
  - 9.7.2 Microsemi Corporation 5G V-RAN Product Overview
  - 9.7.3 Microsemi Corporation 5G V-RAN Product Market Performance
  - 9.7.4 Microsemi Corporation Business Overview
  - 9.7.5 Microsemi Corporation Recent Developments
- 9.8 MTI Mobile
  - 9.8.1 MTI Mobile 5G V-RAN Basic Information
  - 9.8.2 MTI Mobile 5G V-RAN Product Overview
  - 9.8.3 MTI Mobile 5G V-RAN Product Market Performance
  - 9.8.4 MTI Mobile Business Overview
  - 9.8.5 MTI Mobile Recent Developments
- 9.9 NEC Corporation
  - 9.9.1 NEC Corporation 5G V-RAN Basic Information
  - 9.9.2 NEC Corporation 5G V-RAN Product Overview

9.9.3 NEC Corporation 5G V-RAN Product Market Performance

9.9.4 NEC Corporation Business Overview

9.9.5 NEC Corporation Recent Developments

9.10 Nokia Corporation

9.10.1 Nokia Corporation 5G V-RAN Basic Information

9.10.2 Nokia Corporation 5G V-RAN Product Overview

9.10.3 Nokia Corporation 5G V-RAN Product Market Performance

9.10.4 Nokia Corporation Business Overview

9.10.5 Nokia Corporation Recent Developments

## **10 5G V-RAN REGIONAL MARKET FORECAST**

10.1 Global 5G V-RAN Market Size Forecast

10.2 Global 5G V-RAN Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe 5G V-RAN Market Size Forecast by Country

10.2.3 Asia Pacific 5G V-RAN Market Size Forecast by Region

10.2.4 South America 5G V-RAN Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Consumption of 5G V-RAN by Country

## **11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)**

11.1 Global 5G V-RAN Market Forecast by Type (2025-2032)

11.2 Global 5G V-RAN Market Forecast by Application (2025-2032)

## **12 CONCLUSION AND KEY FINDINGS**

## I would like to order

Product name: Global 5G V-RAN Market Research Report 2024(Status and Outlook)

Product link: <https://marketpublishers.com/r/GAB758E8D318EN.html>

Price: US\$ 2,800.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GAB758E8D318EN.html>