

# 5G Infrastructure Industry Research Report 2024

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## Abstracts

5th generation wireless systems, abbreviated 5G, are improved wireless network technologies deploying in 2018 and later. The primary technologies include: Millimeter wave bands (26, 28, 38, and 60 GHz) offer performance as high as 20 gigabits per second; Massive MIMO (Multiple Input Multiple Output - 64-256 antennas) offers performance 'up to ten times current 4G networks;' 'Low-band 5G' and 'Mid-band 5G' use frequencies from 600 MHz to 6 GHz, especially 3.5-4.2 GHz.

E2E network slicing is a foundation to support diversified 5G services and is key to 5G network architecture evolution. Based on NFV and SDN, physical infrastructure of the future network architecture consists of sites and three-layer DCs. Sites support multiple modes (such as 5G, LTE, and Wi-Fi) in the form of macro, micro, and pico base stations to implement the RAN real time function. These functions have high requirements for computing capability and real time performance and require the inclusion of specific dedicated hardware. Threelayer cloud DC consists of computing and storage resources. The bottom layer is the central office DC, which is closest in relative proximity to the base station side. The second layer is the local DC, and the upper layer is the regional DC, with each layer of arranged DCs connected through transport networks.

According to diversified service requirements, networks generate corresponding network topologies and a series of network function sets (network slices) for each corresponding service type using NFV on a unified physical infrastructure. Each network slice is derived from a unified physical network infrastructure, which greatly reduces subsequent operators' network construction costs. Network slices feature a logical arrangement and are separated as individual structures, which allows for heavily customizable service functions and independent O&M.

According to APO Research, The global 5G Infrastructure market was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of

xx% during the forecast period 2024-2030.

Global 5G Infrastructure key players include Qualcomm (US), Intel (US), Ericsson (SE), Samsung (KR), NEC (JP), Cisco (US), Qorvo (US), Huawei (CN), etc.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for 5G Infrastructure, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding 5G Infrastructure.

The 5G Infrastructure market size, estimations, and forecasts are provided in terms of revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global 5G Infrastructure market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Qualcomm (US)

Intel (US)

Ericsson (SE)

Samsung (KR)

NEC (JP)

Mediatek (TW)

Cisco (US)

Marvell

Qorvo (US)

Huawei (CN)

#### 5G Infrastructure segment by Type

Femtocell

Pico Cell

Micro Cell

Macro Cell

#### 5G Infrastructure Segment by Application

Smart Home

Autonomous Driving

Smart Cities

Industrial IoT

Smart Farming

Healthcare and Mission Critical Applications

Logistics and Shipping

Security and Surveillance

## 5G Infrastructure Segment by Region

North America

United States

Canada

Europe

Germany

France

UK

Italy

Russia

Nordic Countries

Rest of Europe

Asia-Pacific

China

Japan

South Korea

Southeast Asia

India

Australia

Rest of Asia

Latin America

Mexico

Brazil

Rest of Latin America

Middle East & Africa

Turkey

Saudi Arabia

UAE

Rest of MEA

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries

and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global 5G Infrastructure market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of 5G Infrastructure and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market

5. This report helps stakeholders to gain insights into which regions to target globally

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of 5G Infrastructure.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (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 market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Provides the analysis of various market segments 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 4: Provides the analysis of various market segments 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 5: Introduces executive summary of global market size, regional market size, this section also introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by companies in the industry, and the analysis of relevant policies in the industry.

Chapter 6: Detailed analysis of 5G Infrastructure companies' competitive landscape, revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 7, 8, 9, 10, 11: North America, Europe, Asia Pacific, Latin America, Middle East and Africa segment by country. It 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 12: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including revenue, gross margin, product introduction, recent development, etc.

Chapter 13: The main points and conclusions of the report.

Chapter 13: The main points and conclusions of the report.

## Contents

### 1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
  - 1.5.1 Secondary Sources
  - 1.5.2 Primary Sources

### 2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 5G Infrastructure by Type
  - 2.2.1 Market Value Comparison by Type (2019 VS 2023 VS 2030)
  - 2.2.2 Femtocell
  - 2.2.3 Pico Cell
  - 2.2.4 Micro Cell
  - 2.2.5 Macro Cell
- 2.3 5G Infrastructure by Application
  - 2.3.1 Market Value Comparison by Application (2019 VS 2023 VS 2030)
  - 2.3.2 Smart Home
  - 2.3.3 Autonomous Driving
  - 2.3.4 Smart Cities
  - 2.3.5 Industrial IoT
  - 2.3.6 Smart Farming
  - 2.3.7 Healthcare and Mission Critical Applications
  - 2.3.8 Logistics and Shipping
  - 2.3.9 Security and Surveillance
- 2.4 Assumptions and Limitations

### 3 5G INFRASTRUCTURE BREAKDOWN DATA BY TYPE

- 3.1 Global 5G Infrastructure Historic Market Size by Type (2019-2024)
- 3.2 Global 5G Infrastructure Forecasted Market Size by Type (2025-2030)

### 4 5G INFRASTRUCTURE BREAKDOWN DATA BY APPLICATION



- 4.1 Global 5G Infrastructure Historic Market Size by Application (2019-2024)
- 4.2 Global 5G Infrastructure Forecasted Market Size by Application (2019-2024)

## **5 GLOBAL GROWTH TRENDS**

- 5.1 Global 5G Infrastructure Market Perspective (2019-2030)
- 5.2 Global 5G Infrastructure Growth Trends by Region
  - 5.2.1 Global 5G Infrastructure Market Size by Region: 2019 VS 2023 VS 2030
  - 5.2.2 5G Infrastructure Historic Market Size by Region (2019-2024)
  - 5.2.3 5G Infrastructure Forecasted Market Size by Region (2025-2030)
- 5.3 5G Infrastructure Market Dynamics
  - 5.3.1 5G Infrastructure Industry Trends
  - 5.3.2 5G Infrastructure Market Drivers
  - 5.3.3 5G Infrastructure Market Challenges
  - 5.3.4 5G Infrastructure Market Restraints

## **6 MARKET COMPETITIVE LANDSCAPE BY PLAYERS**

- 6.1 Global Top 5G Infrastructure Players by Revenue
  - 6.1.1 Global Top 5G Infrastructure Players by Revenue (2019-2024)
  - 6.1.2 Global 5G Infrastructure Revenue Market Share by Players (2019-2024)
- 6.2 Global 5G Infrastructure Industry Players Ranking, 2022 VS 2023 VS 2024
- 6.3 Global Key Players of 5G Infrastructure Head office and Area Served
- 6.4 Global 5G Infrastructure Players, Product Type & Application
- 6.5 Global 5G Infrastructure Players, Date of Enter into This Industry
- 6.6 Global 5G Infrastructure Market CR5 and HHI
- 6.7 Global Players Mergers & Acquisition

## **7 NORTH AMERICA**

- 7.1 North America 5G Infrastructure Market Size (2019-2030)
- 7.2 North America 5G Infrastructure Market Growth Rate by Country: 2019 VS 2023 VS 2030
- 7.3 North America 5G Infrastructure Market Size by Country (2019-2024)
- 7.4 North America 5G Infrastructure Market Size by Country (2025-2030)
- 7.5 United States
- 7.6 Canada

## **8 EUROPE**

- 8.1 Europe 5G Infrastructure Market Size (2019-2030)
- 8.2 Europe 5G Infrastructure Market Growth Rate by Country: 2019 VS 2023 VS 2030
- 8.3 Europe 5G Infrastructure Market Size by Country (2019-2024)
- 8.4 Europe 5G Infrastructure Market Size by Country (2025-2030)
- 8.5 Germany
- 8.6 France
- 8.7 U.K.
- 8.8 Italy
- 8.9 Russia
- 8.10 Nordic Countries

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific 5G Infrastructure Market Size (2019-2030)
- 9.2 Asia-Pacific 5G Infrastructure Market Growth Rate by Country: 2019 VS 2023 VS 2030
- 9.3 Asia-Pacific 5G Infrastructure Market Size by Country (2019-2024)
- 9.4 Asia-Pacific 5G Infrastructure Market Size by Country (2025-2030)
- 9.5 China
- 9.6 Japan
- 9.7 South Korea
- 9.8 Southeast Asia
- 9.9 India
- 9.10 Australia

## **10 LATIN AMERICA**

- 10.1 Latin America 5G Infrastructure Market Size (2019-2030)
- 10.2 Latin America 5G Infrastructure Market Growth Rate by Country: 2019 VS 2023 VS 2030
- 10.3 Latin America 5G Infrastructure Market Size by Country (2019-2024)
- 10.4 Latin America 5G Infrastructure Market Size by Country (2025-2030)
- 10.5 Mexico
- 10.6 Brazil

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa 5G Infrastructure Market Size (2019-2030)
- 11.2 Middle East & Africa 5G Infrastructure Market Growth Rate by Country: 2019 VS 2023 VS 2030
- 11.3 Middle East & Africa 5G Infrastructure Market Size by Country (2019-2024)
- 11.4 Middle East & Africa 5G Infrastructure Market Size by Country (2025-2030)
- 11.5 Turkey
- 11.6 Saudi Arabia
- 11.7 UAE

## **12 PLAYERS PROFILED**

- 12.1 Qualcomm (US)
  - 12.1.1 Qualcomm (US) Company Information
  - 12.1.2 Qualcomm (US) Business Overview
  - 12.1.3 Qualcomm (US) Revenue in 5G Infrastructure Business (2019-2024)
  - 12.1.4 Qualcomm (US) 5G Infrastructure Product Portfolio
  - 12.1.5 Qualcomm (US) Recent Developments
- 12.2 Intel (US)
  - 12.2.1 Intel (US) Company Information
  - 12.2.2 Intel (US) Business Overview
  - 12.2.3 Intel (US) Revenue in 5G Infrastructure Business (2019-2024)
  - 12.2.4 Intel (US) 5G Infrastructure Product Portfolio
  - 12.2.5 Intel (US) Recent Developments
- 12.3 Ericsson (SE)
  - 12.3.1 Ericsson (SE) Company Information
  - 12.3.2 Ericsson (SE) Business Overview
  - 12.3.3 Ericsson (SE) Revenue in 5G Infrastructure Business (2019-2024)
  - 12.3.4 Ericsson (SE) 5G Infrastructure Product Portfolio
  - 12.3.5 Ericsson (SE) Recent Developments
- 12.4 Samsung (KR)
  - 12.4.1 Samsung (KR) Company Information
  - 12.4.2 Samsung (KR) Business Overview
  - 12.4.3 Samsung (KR) Revenue in 5G Infrastructure Business (2019-2024)
  - 12.4.4 Samsung (KR) 5G Infrastructure Product Portfolio
  - 12.4.5 Samsung (KR) Recent Developments
- 12.5 NEC (JP)
  - 12.5.1 NEC (JP) Company Information
  - 12.5.2 NEC (JP) Business Overview
  - 12.5.3 NEC (JP) Revenue in 5G Infrastructure Business (2019-2024)

- 12.5.4 NEC (JP) 5G Infrastructure Product Portfolio
- 12.5.5 NEC (JP) Recent Developments
- 12.6 Mediatek (TW)
  - 12.6.1 Mediatek (TW) Company Information
  - 12.6.2 Mediatek (TW) Business Overview
  - 12.6.3 Mediatek (TW) Revenue in 5G Infrastructure Business (2019-2024)
  - 12.6.4 Mediatek (TW) 5G Infrastructure Product Portfolio
  - 12.6.5 Mediatek (TW) Recent Developments
- 12.7 Cisco (US)
  - 12.7.1 Cisco (US) Company Information
  - 12.7.2 Cisco (US) Business Overview
  - 12.7.3 Cisco (US) Revenue in 5G Infrastructure Business (2019-2024)
  - 12.7.4 Cisco (US) 5G Infrastructure Product Portfolio
  - 12.7.5 Cisco (US) Recent Developments
- 12.8 Marvell
  - 12.8.1 Marvell Company Information
  - 12.8.2 Marvell Business Overview
  - 12.8.3 Marvell Revenue in 5G Infrastructure Business (2019-2024)
  - 12.8.4 Marvell 5G Infrastructure Product Portfolio
  - 12.8.5 Marvell Recent Developments
- 12.9 Qorvo (US)
  - 12.9.1 Qorvo (US) Company Information
  - 12.9.2 Qorvo (US) Business Overview
  - 12.9.3 Qorvo (US) Revenue in 5G Infrastructure Business (2019-2024)
  - 12.9.4 Qorvo (US) 5G Infrastructure Product Portfolio
  - 12.9.5 Qorvo (US) Recent Developments
- 12.10 Huawei (CN)
  - 12.10.1 Huawei (CN) Company Information
  - 12.10.2 Huawei (CN) Business Overview
  - 12.10.3 Huawei (CN) Revenue in 5G Infrastructure Business (2019-2024)
  - 12.10.4 Huawei (CN) 5G Infrastructure Product Portfolio
  - 12.10.5 Huawei (CN) Recent Developments

## **13 REPORT CONCLUSION**

## **14 DISCLAIMER**

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