

# **Vietnam 5G Infrastructure Market By Communication Infrastructure (Small Cell, Macro Cell, Radio Access Network (RAN) and Distributed Antenna System (DAS)), By Core Network Technology (Software-Defined Networking (SDN), Network Function Virtualization (NFV), Mobile Edge Computing (MEC), Fog Computing (FC)), By Application (Automotive, Healthcare, Energy & Utilities, Retail, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F**

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## **Abstracts**

### Market Overview

The Vietnam 5G Infrastructure Market was valued at USD 822 million in 2024 and is projected to reach USD 2,100 million by 2030, growing at a CAGR of 17.1% during the forecast period. The market is expanding rapidly, fueled by Vietnam's digital transformation, growing internet penetration, and rising demand for high-speed connectivity. Government initiatives supporting digital infrastructure and the involvement of both domestic and international telecom firms are accelerating 5G rollout. Increased deployment of 5G infrastructure is aimed at meeting bandwidth requirements for both consumers and enterprises, enabling next-gen applications and fostering a more connected and efficient digital ecosystem across sectors.

### Key Market Drivers

## Rapid Digital Transformation

Vietnam's ongoing digital transformation is a key catalyst for the growth of its 5G infrastructure market. As digital technologies become central to everyday life and business operations, the demand for faster, more reliable connectivity has surged. A growing number of businesses are adopting digital platforms for operations and customer engagement, driving the need for advanced telecommunications networks. With 79.1% internet penetration and more than 78 million users as of early 2024, Vietnam's connectivity landscape is rapidly evolving. 5G technology is poised to support this momentum with enhanced speed, lower latency, and greater network capacity, making it critical for the nation's progression toward a fully digital economy.

## Key Market Challenges

### Infrastructure Investment

A major hurdle in Vietnam's 5G infrastructure rollout is the significant investment required. Building a nationwide 5G network entails large capital outlays for new base stations, spectrum licenses, and backhaul systems. These upfront costs are particularly challenging in a market with relatively low average revenue per user (ARPU), making profitability uncertain in the short term. Additionally, Vietnam's varied geography—from dense urban zones to remote rural areas—requires customized infrastructure strategies, further increasing complexity and cost. Collaboration among telecom operators, government agencies, and private stakeholders is essential to establish viable financial models and streamline deployment, especially in underserved regions.

## Key Market Trends

### IoT Integration

The integration of Internet of Things (IoT) technologies is a key trend shaping the future of Vietnam's 5G infrastructure market. 5G enables high-speed, low-latency communication, which is essential for supporting a broad range of IoT devices, including smart meters, wearable tech, autonomous vehicles, and industrial sensors. This capability is particularly important for the development of smart cities and digital industries. As of January 2025, VNPT extended 5G coverage to all 63 provinces and major airports, servicing approximately 3 million users. This widespread coverage will be vital for enabling large-scale IoT applications, driving innovation and digital efficiency across Vietnam's economy.

## Key Market Players

Huawei Technologies Co., Ltd.

Nokia Corporation

Ericsson AB

Samsung Electronics Co., Ltd.

ZTE Corporation

Cisco Systems, Inc.

Qualcomm Technologies, Inc.

Intel Corporation

Fujitsu Limited

Verizon Communications Inc.

## Report Scope:

In this report, the Vietnam 5G Infrastructure Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Vietnam 5G Infrastructure Market, By Communication Infrastructure:

Small Cell

Macro Cell

Radio Access Network (RAN)

Distributed Antenna System (DAS)

### Vietnam 5G Infrastructure Market, By Core Network Technology:

Software-Defined Networking (SDN)

Network Function Virtualization (NFV)

Mobile Edge Computing (MEC)

Fog Computing (FC)

### Vietnam 5G Infrastructure Market, By Application:

Automotive

Healthcare

Energy & Utilities

Retail

Others

### Vietnam 5G Infrastructure Market, By Region:

Southern Vietnam

Northern Vietnam

Central Vietnam

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Vietnam 5G Infrastructure Market.

### Available Customizations:

Vietnam 5G Infrastructure Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

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