

5G Enterprise Private Network Market By Component (Hardware, Software, Services) , By Frequency Band (Sub-6 GHz, mmWave) By Organization Size (Large Enterprises, Small and Medium-sized Enterprises) By Industry Vertical (BFSI, Manufacturing, Energy & Utilities, Retail, Government, Public Safety, Office Building, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2032

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Abstracts

5G Enterprise Private Network Market

The 5G enterprise private network market was valued at \$1.9 billion in 2023 and is projected to reach \$70.4 billion by 2032, growing at a CAGR of 49.4% from 2024 to 2032.

5G enterprise private network is a nonpublic mobile network with restricted access, majorly utilized by third party providers, private businesses, and municipalities. It is a wireless network option that serves as an alternative to Wi-Fi and Long-Term Evolution. This form of network is deployed either as a service, as a hybrid or sliced network, or is wholly owned.

The high demand for enhanced security among enterprises augments the development of the 5G enterprise private network market as it offers organizations enhanced control over their network. In addition, low latency of private networks acts as a key driver of the market as immediate data processing is crucial for the operations of enterprises. A key trend gaining prominence in the market is the availability of private 5G network as

Private Network as a Service (PNaaS). PNaaS enables small-scale organizations to avail themselves of the services of private networks without investing significant capital for the development of complex infrastructure.

However, the high cost of private networks in comparison to public ones deters several budget-sensitive organizations from investing in them, hampering the growth of the market significantly. Moreover, diverse customization requirements for private network across different sectors present scalability challenges for the network providers, restraining the market development. On the contrary, upsurge in investments to strengthen the private network infrastructure is anticipated to present remunerative opportunities for the 5G enterprise private network market. According to a recent report by Analysys Mason—a global telecoms management consulting firm—expenditure by enterprises on private networks is projected to increase from \$1 billion in 2022 to \$9 billion by 2028. This boost in interest in private networks is poised to open new avenues for the market.

Segment Review

The 5G enterprise private network market is segmented into component, frequency band, organization size, industry vertical, and region. On the basis of component, the market is divided into hardware, software, and services. Depending on frequency band, it is bifurcated into sub-6 GHz and mm Wave. As per organization size, it is classified into large enterprises and small & medium-sized enterprises. By industry vertical, it is categorized into BFSI, manufacturing, energy & utilities, retail, government, public safety, office building, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, Latin America, and MEA.

Key Findings

On the basis of component, the hardware segment held a high share of the market in 2023.

Depending on frequency band, the sub-6 GHz segment acquired a high stake in the market in 2023.

As per organization size, the large enterprises segment dominated the market in 2023.

By industry vertical, the manufacturing segment accounted for a high market share in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The major players of the global 5G enterprise private network market include Nokia Corporation, Vodafone Ltd., Samsung, ZTE Corp., Huawei Technology Co. Ltd., Verizon Communications, Deutsche Telekom, Jupiter Networks, A&T Inc., and Cisco System Inc. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Technology Trend Analysis

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Key Market Segments

By Component

Hardware

Software

Services

By Frequency Band

Sub-6 GHz

mmWave

By Organization Size

Large Enterprises

Small and Medium-sized Enterprises

By Industry Vertical

BFSI

Manufacturing

Energy Utilities

Retail

Government

Public Safety

Office Building

Others

By Region

North America

U.S.

Canada

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

Latin America

Brazil

Colombia

Argentina

Rest of Latin America

MEA

Saudi Arabia

South Africa

UAE

Rest of MEA

Key Market Players

Nokia Corporation

Vodafone Ltd.

Samsung

ZTE Corp.

Huawei Technology Co. Ltd.

Verizon Communications

Deutsche Telekom

Jupiter Networks

A&T Inc.

Cisco System Inc.

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