

## **Global Private 5G Network Market Report and Forecast 2024-2032**

Market Report | 2024-02-13 | 190 pages | EMR Inc.

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### **Report description:**

Global Private 5G Network Market Report and Forecast 2024-2032

Market Outlook

According to the report by Expert Market Research (EMR), the global private 5G network market reached a value of USD 2.03 billion in 2023. Aided by the burgeoning demand for high-speed, reliable, and secure wireless communication systems, the market is projected to further grow at a CAGR of 30.5% between 2024 and 2032 to reach a value of USD 25.36 billion by 2032.

Private 5G networks offer dedicated bandwidth and infrastructure tailored to the specific needs of an organisation, distinguishing them from public 5G networks. These networks are designed to provide businesses with unparalleled control over their data traffic, ensuring high levels of security, ultra-low latency, and the ability to support a vast number of connected devices. The customisation allows for tailored deployments, catering to the diverse requirements of various sectors, including manufacturing, healthcare, logistics, and education.

The surge in the private 5G network market growth is attributed to several key factors. Firstly, the exponential increase in IoT (Internet of Things) devices and the need for real-time data processing have necessitated the adoption of networks capable of handling massive data volumes efficiently. Secondly, industries are increasingly seeking solutions that offer enhanced privacy and security, particularly in sensitive sectors such as defense, healthcare, and finance. Moreover, the shift towards Industry 4.0, characterised by automation and smart technology, has underscored the need for reliable, high-speed communication networks. The application of private 5G networks spans a broad spectrum of industries, thereby influencing the private 5G network market outlook. In manufacturing, it facilitates the implementation of smart factories by enabling real-time monitoring, automation, and AI-driven analytics. Healthcare sectors leverage private 5G for telemedicine, patient monitoring, and seamless access to medical records, enhancing patient care and operational efficiency. Furthermore, in logistics and supply chain management, these networks offer precise tracking, autonomous vehicle operation, and augmented reality for training and maintenance, significantly improving productivity and safety.

The adoption of private 5G networks is witnessing a global surge, with North America accounting for a significant portion of the private 5G network market share, attributed to its robust technological infrastructure and early adoption of 5G technologies. However, Asia-Pacific is anticipated to experience the fastest growth during the forecast period, driven by the rapid industrialisation, digital transformation initiatives, and substantial investments in 5G infrastructure by countries such as China,

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Japan, and South Korea.

The future of private 5G networks appears promising, with ongoing advancements in 5G technology and the increasing integration of AI and machine learning. These enhancements are expected to further elevate the capabilities of private 5G, making it an indispensable tool for businesses striving for digital excellence.

#### Market Segmentation

The market can be divided based on component, frequency, spectrum, vertical, and region.

#### Market Breakup by Component

- Hardware
  - o□Radio Access Network
  - o□Core Network
  - o□Backhaul and Transport
- Software
- Services
  - o□Installation and Integration
  - o□Data Services
  - o□Support and Maintenance

#### Market Breakup by Frequency

- Sub-6 GHz
- MmWave

#### Market Breakup by Spectrum

- Licensed
- Unlicensed/Shared

#### Market Breakup by Vertical

- Manufacturing/Factories
- Energy and Utilities
- Transportation and Logistics
- Defence
- Mining
- Healthcare
- Oil and Gas
- Retail
- Agriculture
- Smart Cities
- Others

#### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global private 5G network market. Some of the major players explored in the report by Expert Market Research are as follows:

- Cisco Systems Inc.
- Samsung Electronics Co., Ltd.
- AT&T Inc.

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- Verizon Communications Inc.
- Huawei Technologies Co., Ltd.
- ZTE Corporation
- Telefonaktiebolaget LM Ericsson
- Nokia Corporation
- Juniper Networks, Inc.
- Deutsche Telekom AG
- Others

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\*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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