

U.S. Private 5G Network Market Size, Share & Trends Analysis Report By Component, By Frequency (Sub-6 GHz, mmWave), By Spectrum (Licensed, Unlicensed/Shared), By Vertical, And Segment Forecasts, 2023 - 2030

<https://marketpublishers.com/r/UB62CD6B3B9DEN.html>

Date: July 2023

Pages: 110

Price: US\$ 4,950.00 (Single User License)

ID: UB62CD6B3B9DEN

Abstracts

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U.S. Private 5G Network Market Growth & Trends

The U.S. private 5G network market size is expected to reach USD 10.19 billion by 2030, growing at a CAGR of 52.7% from 2023 to 2030, according to a new study conducted by Grand View Research, Inc. The market has been growing promptly, driven by the increasing demand for dedicated and secure connectivity in various industries. Rising demand for the private 5G network in organizations across sectors such as industrial, manufacturing, healthcare, transportation, logistics, mining, energy, and utilities to enable digital transformation and enhance operational efficiency is propelling the growth of the market.

Organizations can achieve greater security, control, and reliability by leveraging private 5G networks compared to public networks. These networks offer dedicated and customizable resources that are tailored to the specific needs of businesses, ensuring dependable and efficient connectivity within their premises. In response to this growing demand, numerous technology providers and telecommunication companies are investing in the advancement and implementation of private 5G infrastructure and solutions. Their focus is on developing resilient and scalable network frameworks capable of supporting diverse applications and use cases across multiple industries.

In February 2023, Cisco Systems, Inc., a digital communications technology company, and NTT Limited, an information technology infrastructure and service company, announced strategies to collaborate to drive private 5G adoption across the healthcare, automotive, retail, logistics, and public sectors. The companies announced their plan to co-innovate and jointly deliver technology solutions and managed services. This partnership aims to empower enterprise customers in deploying private 5G networks effectively, ultimately enabling them to achieve improved business outcomes.

Various global companies are launching private 5G networks across the U.S. For instance, in September 2022, during the Mobile World Congress 2022 in Las Vegas, NTT Limited, an information technology infrastructure and service company announced the deployment of its 5G private network in Las Vegas, U.S. The company also unveiled a comprehensive Net-Zero Action solution that integrates cutting-edge technologies such as 5G, edge computing, and the Internet of Things (IoT) to assist companies in achieving their carbon-zero goals. The 5G private network for Las Vegas is expected to support healthcare, the government, businesses, and the education sector.

The global deployment of 5G faced substantial delays during the COVID-19 pandemic due to factors like reduced network infrastructure spending and a limited workforce. Telecom providers prioritized focused capacity coverage rather than large-scale deployments due to the scarcity of investments and resources. Furthermore, disruptions in the supply chain resulted in significant component shortages, further impeding the 5G rollout worldwide.

However, as the world gradually recovers from the pandemic, enterprises are anticipated to invest in service offerings that facilitate new work approaches. Technologies such as the Internet of Things (IoT), Augmented Reality (AR), Virtual Reality (VR), and Software-Defined Wide Area Networking (SD-WAN) are expected to receive renewed focus. To integrate these technologies effectively, enterprises are embracing ultra-high-speed connectivity, driving the growth of the private 5G network industry in the foreseeable future.

U.S. Private 5G Network Market Report Highlights

The services segment is anticipated to emerge as the fastest-growing segment over the forecast period. The growth is driven by the growing demand for specialized expertise and support in managing and deploying private 5G networks

The mmWave segment is expected to grow at the highest CAGR during the forecast period. The growing demand for low-latency and high-speed wireless communications is driving the adoption of mmWave frequencies

The unlicensed/shared segment is anticipated to emerge as the fastest-growing segment over the forecast period. Increasing adoption of unlicensed/shared spectrum by businesses in sectors such as logistics, manufacturing, and smart cities, owing to its accessibility and flexibility benefits is boosting the segment's growth

The manufacturing/factories segment accounted for the largest market share in 2022. The rising deployment of private 5G networks in factories and manufacturing facilities to enable real-time monitoring, automation, and control of industrial processes is propelling the segment's growth

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