

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

This report can be delivered to the clients within 3 Business Days

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

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation & Scope
- 1.2 Market Definitions
- 1.3 Information Procurement
- 1.4 Information analysis
 - 1.4.1 Market Formulation & Data Visualization
 - 1.4.2 Data Validation & Publishing
- 1.5 Research Scope and Assumptions
- 1.6 List of data sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Snapshot
- 2.2 Segment Snapshot
- 2.3 Competitive Landscape Snapshot

CHAPTER 3 U.S. PRIVATE 5G NETWORK MARKET VARIABLES AND TRENDS

- 3.1 Market Lineage Outlook
- 3.2 Industry Value Chain Analysis
 - 3.2.1 5G Original Equipment Manufacturers
 - 3.2.2 Manufacturing & Technology Trends
- 3.3 Market Dynamics
 - 3.3.1 Market Driver Impact Analysis
 - 3.3.1.1 Rising Implementation Of Highly Secured 5g Network Infrastructure Across Several Enterprise And Industrial Use Cases
 - 3.3.1.2 Robust deployment of next - generation private 5G network infrastructure across smart cities applications
 - 3.3.2 Market Challenge Impact Analysis
 - 3.3.2.1 Deployment and Operational Complexities
 - 3.3.1 Market Opportunity Impact Analysis
 - 3.3.1.1 Rising investments to implement private 5G network infrastructure and solutions by the key market players and end-use customers
- 3.4 Impact of the COVID-19 Pandemic
- 3.5 Industry Analysis Tools
 - 3.5.1 Porter's Analysis

- 3.5.2 Pestel Analysis
- 3.6 Key Use Case Analysis
 - 3.6.1 Automated Guided Vehicles (AGV)
 - 3.6.2 Collaborative Robots/Cloud - Robots
 - 3.6.3 Industrial Sensors And Heavy Machinery Automation
 - 3.6.4 Predictive Maintenance And Analytics
 - 3.6.5 Remote Patient Monitoring & Diagnosis
 - 3.6.6 Public Safety And Emergency Services
- 3.7 5G Current and Upcoming Spectrum Scenario
- 3.8 5G Regulations & Policies
- 3.9 U.S. Private 5G - Key Use Cases by Vertical

CHAPTER 4 U.S. PRIVATE 5G NETWORK MARKET: COMPONENT ESTIMATES & TREND ANALYSIS

- 4.1 Component Movement Analysis & Market Share, 2022 & 2030
- 4.2 U.S. Private 5G Network Market Estimates & Forecast, By Component
- 4.3 U.S. Private 5G Network Market Estimates & Forecast, By Hardware
- 4.4 U.S. Private 5G Network Market Estimates & Forecast, By Services
 - 4.4.1 Hardware
 - 4.4.1.1 Radio access network
 - 4.4.1.2 Core network
 - 4.4.1.3 Backhaul & transport
 - 4.4.2 Software
 - 4.4.3 Services
 - 4.4.3.1 Installation & integration
 - 4.4.3.2 Data services
 - 4.4.3.3 Support & maintenance

CHAPTER 5 U.S. PRIVATE 5G NETWORK MARKET: FREQUENCY ESTIMATES & TREND ANALYSIS

- 5.1 Frequency Movement Analysis & Market Share, 2022 & 2030
- 5.2 U.S. Private 5G Network Market Estimates & Forecast, By Frequency
 - 5.2.1 Sub - 6 GHz
 - 5.2.2 mmWave

CHAPTER 6 U.S. PRIVATE 5G NETWORK MARKET: SPECTRUM ESTIMATES & TREND ANALYSIS

- 6.1 Spectrum Movement Analysis & Market Share, 2022 & 2030
- 6.2 U.S. Private 5G Network Market Estimates & Forecast, By Spectrum
 - 6.2.1 Licensed
 - 6.2.2 Unlicensed/Shared

CHAPTER 7 U.S. PRIVATE 5G NETWORK MARKET: VERTICALS ESTIMATES & TREND ANALYSIS

- 7.1 Verticals Movement Analysis & Market Share, 2022 & 2030
- 7.2 U.S. Private 5G Network Market Estimates & Forecast, By Verticals
- 7.3 U.S. Private 5G Network Market Estimates & Forecast, By Manufacturing/Factories
- 7.4 U.S. Private 5G Network Market Estimates & Forecast, By Transportation & Logistics
 - 7.4.1 Manufacturing/Factories
 - 7.4.1.1 Automotive
 - 7.4.1.2 Electrical & electronics
 - 7.4.1.3 Food & beverages
 - 7.4.1.4 Pharmaceuticals
 - 7.4.1.5 Heavy Machinery
 - 7.4.1.6 Clothing & Accessories
 - 7.4.1.7 Others
 - 7.4.2 Energy & Utilities
 - 7.4.3 Transportation & Logistics
 - 7.4.3.1 Warehouses
 - 7.4.3.2 Vehicle to everything (v2x) connectivity
 - 7.4.3.3 Ports
 - 7.4.3.4 Airports
 - 7.4.3.5 Rail
 - 7.4.4 Defense
 - 7.4.5 Public Safety
 - 7.4.6 Enterprises & Campus
 - 7.4.7 Public Venues
 - 7.4.8 Mining
 - 7.4.9 Healthcare/Hospitals
 - 7.4.10 Oil & Gas
 - 7.4.11 Retail
 - 7.4.12 Agriculture
 - 7.4.13 Smart Cities

7.4.14 Others

CHAPTER 8 U.S. PRIVATE 5G NETWORK MARKET - COMPETITIVE LANDSCAPE

8.1 Company Categorization

8.2 Participant's Overview

8.2.1 AT & T, Inc.

8.2.2 Altiostar

8.2.3 Cisco Systems, Inc.

8.2.4 Nokia Corporation

8.2.5 Samsung Electronics Co., Ltd.

8.2.6 Telefonaktiebolaget LM Ericsson

8.2.7 T - Systems International GmbH

8.2.8 Vodafone Group Plc

8.2.9 Verizon Communications, Inc.

8.2.10 Mavenir

8.2.11 Broadcom, Inc.

8.2.12 Qualcomm Incorporated

8.2.13 Amazon Web Services, Inc.

8.2.14 Celona, Inc.

8.3 Financial Performance

8.4 Product Benchmarking

8.5 Company Market Positioning

8.6 Company Market Share Analysis, 2022

8.7 Company Heat Map Analysis

8.8 Strategy Mapping

8.8.1 Collaborations

8.8.2 New Product Launches

List Of Tables

LIST OF TABLES

Table 1 Potential smart city applications with 5G technology

Table 2 U.S. Private 5G - Key Use Cases by Vertical

Table 3 U.S. Private 5G Network Market, by Component, 2020 - 2030 (USD Million)

Table 4 U.S. Private 5G Network Market, by Hardware, 2020 - 2030 (USD Million)

Table 5 U.S. Private 5G Network Market, by Services, 2020 - 2030 (USD Million)

Table 6 U.S. Private 5G Network Market, by Frequency, 2020 - 2030 (USD Million)

Table 7 U.S. Private 5G Network Market, by Spectrum, 2020 - 2030 (USD Million)

Table 8 U.S. private 5G network market, by Verticals, 2020 - 2030 (USD Million)

Table 9 U.S. private 5G network market, by manufacturing/factories, 2020 - 2030 (USD Million)

Table 10 U.S. private 5G network market, by transportation & logistics, 2020 - 2030 (USD Million)

Table 11 Company Market Share, 2022

Table 12 Company Heat Map Analysis

Table 13 Key companies undergoing collaborations

Table 14 Key companies launching new products

List Of Figures

LIST OF FIGURES

- Fig. 1 U.S. Private 5G Network Market Segmentation
- Fig. 2 Information Procurement
- Fig. 3 Data Analysis Models
- Fig. 4 Market Formulation And Validation
- Fig. 5 Data Validating & Publishing
- Fig. 6 Market Snapshot
- Fig. 7 Segment Snapshot
- Fig. 8 Segment Snapshot
- Fig. 9 Segment Snapshot
- Fig. 10 Competitive Landscape Snapshot
- Fig. 11 5G Infrastructure Market Value, 2022 (USD Billion)
- Fig. 12 U.S. Private 5G Network Market - Industry Value Chain Analysis
- Fig. 13 U.S. Private 5G Network Market Dynamics
- Fig. 14 5G commercial service deployment time (Respondents in %)
- Fig. 15 U.S. Private 5G Network Market: Porter's Analysis
- Fig. 16 U.S. Private 5G Network Market: Pestel Analysis
- Fig. 17 U.S. Private 5G Network Market, by Component: Key Takeaways
- Fig. 18 U.S. Private 5G Network Market, by Component: Market Share, 2022 & 2030
- Fig. 19 U.S. Private 5G Network Market by hardware estimates & forecasts, 2020 - 2030 (USD Million)
- Fig. 20 U.S. private 5G network market by radio access network estimates & forecasts, 2020 - 2030 (USD Million)
- Fig. 21 U.S. private 5G network market by core network estimates & forecasts, 2020 - 2030 (USD Million)
- Fig. 22 U.S. private 5G network market by backhaul & transport estimates & forecasts, 2020 - 2030 (USD Million)
- Fig. 23 U.S. private 5G network market by software estimates & forecasts, 2020 - 2030 (USD Million)
- Fig. 24 U.S. private 5G network market by services estimates & forecasts, 2020 - 2030 (USD Million)
- Fig. 25 U.S. private 5G network market by installation & integration estimates & forecasts, 2020 - 2030 (USD Million)
- Fig. 26 U.S. Private 5G Network Market by data services estimates & forecasts, 2020 - 2030 (USD Million)
- Fig. 27 U.S. Private 5G Network Market by support & maintenance estimates &

forecasts, 2020 - 2030 (USD Million)

Fig. 28 U.S. Private 5G Network Market, by Frequency: Key Takeaways

Fig. 29 U.S. Private 5G Network Market, by Frequency: Market Share, 2022 & 2030

Fig. 30 U.S. Private 5G Network Market by Sub-6 GHz estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 31 U.S. Private 5G Network Market by mmWave estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 32 U.S. Private 5G Network Market, by Spectrum: Key Takeaways

Fig. 33 U.S. Private 5G Network Market, by Spectrum: Market Share, 2022 & 2030

Fig. 34 U.S. Private 5G Network Market by licensed spectrum estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 35 U.S. Private 5G Network Market by unlicensed/shared spectrum estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 36 U.S. Private 5G Network Market, by Verticals: Key Takeaways

Fig. 37 U.S. Private 5G Network Market, by Verticals: Market Share, 2022 & 2030

Fig. 38 U.S. private 5G network market by manufacturing/factories estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 39 U.S. private 5G network market by automotive estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 40 U.S. private 5G network market by electrical & electronics estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 41 U.S. private 5G network market by food & beverages estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 42 U.S. private 5G network market by pharmaceuticals estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 43 U.S. private 5G network market by heavy machinery estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 44 U.S. private 5G network market by clothing & accessories estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 45 U.S. private 5G network market by others estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 46 U.S. private 5G network market by energy & utilities estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 47 U.S. private 5G network market by transportation & logistics estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 48 U.S. private 5G network market by warehouses estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 49 U.S. private 5G network market by vehicle to everything (v2x) connectivity estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 50 U.S. private 5G network market by ports estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 51 U.S. private 5G network market by airports estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 52 U.S. private 5G network market by rail estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 53 U.S. private 5G network market by defense estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 54 U.S. private 5G network market by public safety estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 55 U.S. private 5G network market by enterprises & campus estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 56 U.S. private 5G network market by public venues estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 57 U.S. private 5G network market by mining estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 58 U.S. private 5G network market by healthcare/hospitals estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 59 U.S. private 5G network market by oil & gas estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 60 U.S. private 5G network market by retail estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 61 U.S. private 5G network market by agriculture estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 62 U.S. private 5G network market by smart cities estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 63 U.S. private 5G network market by others estimates & forecasts, 2020 - 2030 (USD Million)

Fig. 64 Key Company Categorization

Fig. 65 Company Market Positioning

Fig. 66 Company Market Share Analysis, 2022

Fig. 67 Strategic Framework

I would like to order

Product name: 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

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

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/UB62CD6B3B9DEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970