

Global Private 5G Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Private 5G market size is predicted to grow from US\$ 5014 million in 2025 to US\$ 54389 million in 2032; it is expected to grow at a CAGR of 38.9% from 2026 to 2032.

Private 5G refers to a dedicated 5G network deployed for a specific enterprise, organization, or industry, operated independently or customized and managed by a mobile operator or equipment vendor. Network resources, spectrum usage, core network functions, and security policies are configured exclusively for the user and are either fully isolated from or selectively interconnected with public mobile networks. Private 5G networks provide high reliability, ultra-low latency, massive connectivity, and enhanced security, making them suitable for mission-critical applications in industries such as manufacturing, energy, utilities, ports, mining, transportation, healthcare, and large campuses.

The private 5G market is primarily driven by accelerating digital transformation and rising demand for deterministic and secure wireless connectivity in mission-critical industries. As industrial automation, smart manufacturing, and intelligent infrastructure expand, limitations of legacy wired networks and public wireless networks in terms of flexibility, latency control, and security become more apparent, encouraging adoption of dedicated 5G solutions. At the same time, the maturation of 5G capabilities—such as ultra-low latency, high bandwidth, and support for massive device connectivity—enables new use cases including real-time control, machine collaboration, and high-definition video transmission. In addition, government support for industrial digitalization and enterprises' growing focus on data security and operational continuity further stimulate demand for private 5G networks.

LPI (LP Information)' newest research report, the “Private 5G Industry Forecast” looks at past sales and reviews total world Private 5G sales in 2025, providing a comprehensive analysis by region and market sector of projected Private 5G sales for 2026 through 2032. With Private 5G sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Private 5G industry.

This Insight Report provides a comprehensive analysis of the global Private 5G landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Private 5G portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Private 5G market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Private 5G and breaks down the forecast by Spectrum, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Private 5G.

This report presents a comprehensive overview, market shares, and growth opportunities of Private 5G market by product type, application, key players and key regions and countries.

Segmentation by Spectrum:

Sub-6 GHz

mmWave

Segmentation by Deployment Model:

Standalone Deployment

Operator-Managed Deployment

Hybrid Deployment

Segmentation by Core Network Architecture:

On-Premise Core Network

Cloud-Based Core Network

Edge-Integrated Core Network

Segmentation by Application:

Manufacturing

Energy, Utilities and Mining

Transportation & Logistics

Education and Hospitality

Government & Public Safety

Corporates & Enterprises

Healthcare

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Huawei

Ericsson

China Mobile

Nokia

China Unicom

China Telecom

Vodafone

Verizon

AT&T

NTT

Deutsche Telekom

Telefonica O2

ZTE

T-Mobile

NEC

Fujitsu

Samsung

Cisco

Qualcomm

Amazon Web Services (AWS)

HPE

Advantech

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