

**Private 5G Market by Offering (RAN, Base Station, Antenna, Core Network, Edge Server, Gateway, Delivery Network, Network Management, Managed Services), Spectrum Allocation (Licensed, Shared), Frequency Band (Low, Mid, mmWave) - Global Forecast to 2030**

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**Report description:**

The private 5G market is valued at USD 3.86 billion in 2025 and is projected to reach USD 17.55 billion by 2030, registering a CAGR of 35.4% during the forecast period. Private 5G networks are being increasingly adopted across industries due to their ability to provide highly reliable, low-latency, and secure connectivity tailored to specific enterprise needs. In the manufacturing sector, private 5G enables real-time monitoring, automated guided vehicles (AGVs), and robotic control, supporting Industry 4.0 transformation. In healthcare, it enhances remote surgery, real-time imaging, and secure patient data transmission. The logistics and transportation industries use private 5G to streamline operations through asset tracking, fleet management, and automated warehousing. Retailers deploy private 5G to enable smart shelves, customer analytics, and immersive shopping experiences. The technology also supports the energy & utility sector in enabling predictive maintenance and grid automation. With dedicated spectrum and localized control, private 5G allows enterprises to customize network performance, ensuring optimal support for mission-critical applications and greater operational control, driving its growing relevance across digitally transforming industries.

"Private 5G services segment expected to grow at the highest CAGR during forecast period"

The private 5G services segment is expected to grow at the highest CAGR during the forecast period due to rising demand for customized network services that ensure greater control, security, and performance. Services such as network design and deployment, integration with existing infrastructure, spectrum management, and lifecycle management are critical in enabling organizations to implement and operate private 5G networks effectively. Market growth is driven by increased adoption across industries like manufacturing, logistics, and energy, which require ultra-low latency and high-reliability connectivity for

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automation, real-time monitoring, and mission-critical applications. These services play a crucial role in supporting enterprises with end-to-end deployment, from planning and installation to ongoing maintenance and optimization. The rising need for Industry 4.0 transformation, growing reliance on IoT and edge computing, and increasing availability of private spectrum licenses globally are further accelerating the uptake of private 5G services, positioning them as a key enabler of digital transformation initiatives.

"Manufacturing vertical to account for largest share of private 5G market during forecast period"

The manufacturing vertical is expected to hold the largest market share in the private 5G market during the forecast period, driven by the increasing adoption of smart manufacturing and industrial automation. Manufacturers are investing in private 5G networks to enable real-time communication, machine-to-machine connectivity, and data-driven decision-making on the factory floor. Private 5G provides high bandwidth, ultra-low latency, and secure connectivity required to support advanced technologies such as robotics, digital twins, predictive maintenance, and autonomous systems. These capabilities are critical for improving operational efficiency, reducing downtime, and enhancing production flexibility. The transition to Industry 4.0 is further accelerating this trend as companies seek to integrate IoT devices, sensors, and AI-driven analytics into their production environments. By deploying private 5G, manufacturers gain greater control over network performance and data security, supporting critical use cases in complex, high-density industrial settings and positioning the sector as a leading adopter of private 5G solutions.

"Germany to dominate private 5G market in Europe"

Germany is expected to dominate the private 5G market in Europe during the forecast period, driven by its strong industrial base, regulatory flexibility, and urgency for digital transformation, particularly in the automotive sector. Unlike public 5G networks, private 5G networks in Germany are not bound by the BSIG or TKG regulations, allowing enterprises to deploy tailored and secure networks without mandatory certifications. This regulatory clarity supports faster rollouts across manufacturing, logistics, and other verticals. The German automotive industry, facing global competition and the shift to electric vehicles, is accelerating its transition toward smart manufacturing. Private 5G enables real-time communication, edge computing, and seamless integration of robotics, AR/VR, and condition-based monitoring, essential for modern, data-driven production. As automotive giants prioritize automation and efficiency to retain global leadership, private 5G is becoming a critical infrastructure. This strategic alignment between industrial priorities and digital capability makes Germany a key hub for private 5G adoption in Europe.

-□By Company Type: Tier 1 - 25%, Tier 2 - 40%, and Tier 3 - 35%

-□By Designation: Directors - 30%, Managers - 28%, , and Others - 42%

-□By Region: North America - 43%, Europe - 15%, Asia Pacific - 37%, and RoW - 5%

Huawei Technologies Co., Ltd. (China), Telefonaktiebolaget LM Ericsson (Sweden), Nokia (Finland), Samsung (South Korea), ZTE Corporation (China), NEC Corporation (Japan), Oracle (US), Cisco Systems, Inc. (US), Ciena Corporation (US), Juniper Networks, Inc. (US), Celona Inc. (US), Mavenir (US), Parallel Wireless (US), NTT DATA Group Corporation (Japan), and AT&T (US) are some of the key players in the private 5G market.

The study includes an in-depth competitive analysis of these key players in the private 5G market, with their company profiles, recent developments, and key market strategies.

## Research Coverage

This research report categorizes the private 5G market by offering (hardware (radio access network, core network, backhaul & transport, edge computing infrastructure), software, and services), network type (non-standalone 5G and standalone 5G), cloud deployment models (private/dedicated cloud, public cloud, and hybrid cloud), organization size (small & medium enterprises and

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large enterprises), spectrum allocation (licensed spectrum and unlicensed/shared spectrum), and frequency band (low band, mid band, and mmWave), vertical (manufacturing, energy & utilities, retail & e-commerce, healthcare, BFSI, infrastructure, transportation & logistics, aerospace, media & entertainment, IT & telecommunication, and other verticals), and by region (North America, Europe, Asia Pacific, and RoW). The report's scope covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the private 5G market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and products; key strategies; contracts, partnerships, agreements; new product launches; mergers & acquisitions; and other recent developments associated with the private 5G market. This report covers the competitive analysis of upcoming startups in the private 5G market ecosystem.

#### Reasons to buy this report

The report will help market leaders and new entrants with information on the closest approximations of the revenue numbers for the overall private 5G market and its subsegments. It will also help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (Rising demand for industrial automation and smart manufacturing, Increasing demand for IIoT, Increasing demand for security and privacy in enterprise networks), restraints (Limited availability of spectrum), opportunities (Increasing adoption of private 5G in the healthcare vertical, Integration of edge computing in private 5G), and challenges (High initial capital investment, Integration with existing systems)
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the private 5G market
- Market Development: Comprehensive information about lucrative markets?the report analyses the private 5G market across varied regions.
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the private 5G market
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Huawei Technologies Co., Ltd. (China), Telefonaktiebolaget LM Ericsson (Sweden), Nokia (Finland), Samsung (South Korea), ZTE Corporation (China), NEC Corporation (Japan), Oracle (US), Cisco Systems, Inc. (US), Ciena Corporation (US), Juniper Networks, Inc. (US), among others, in the private 5G market.

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