

Private 5G Network Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Component (Hardware, Software, and Services); Frequency (Sub-6 GHz and mmWave), End User (Manufacturing, Energy and Utilities, Automotive, Military and Defense, Government and Public Safety, and Others)

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Abstracts

The Private 5G Networks Market size is expected to reach US\$ 27.87 billion by 2030 from 1.92 billion in 2022, at an estimated CAGR of 39.7% from 2022 to 2030.

The North American Private 5G Networks market is segmented into the US, Canada, and Mexico. The US is estimated to hold the largest Private 5G Networks market share during the forecast period, due to the presence of a number of factors, including a large number of enterprises and organizations that are early adopters of new technologies, a strong focus on innovation and digital transformation, government support for the deployment of 5G networks, and well-developed ecosystem of providers in private 5G networks market. Further, the US is one of the world's leading markets for private LTE and 5G wireless networks, accounting for 31% of the global market.

Manufacturing/factories, energy/utilities, transportation/logistics, and the Department of Defense are the major verticals in the country that use private networks.

Moreover, American utility companies have made significant investments in securing the CBRS PAL (Priority Access License) spectrum at 900 MHz and 3.5 GHz inside their service zones. Ameren, Evergy, Hawaiian Electric, LCRA (Lower Colorado River

Authority), SCE (Southern California Edison), SDG&E (San Diego Gas & Electric), Southern Company, and Xcel Energy are among the companies implementing 3GPP-based private wireless networks in support of grid modernization programs. Major players in the North America private 5G network market include AT&T, Verizon, T-Mobile US, Nokia, Ericsson, Cisco, Huawei, IBM, and Dell Technologies. Thus, the private 5G networks market in North America is expected to continue to grow rapidly in the coming years as more and more enterprises and organizations recognize the benefits of deploying solutions in private 5G networks market.

The US is one of the world's leading markets for private LTE and 5G wireless networks. Manufacturing/factories, energy/utilities, transportation/logistics, and the Department of Defense are the main verticals in the country that use private networks. For instance, AT&T established a private 5G network in the mmWave (millimeter wave) band, which works at 28 GHz and above, at the Ellison Institute for Transformative Medicine in Los Angeles. Terranet Communications, a private network provider, boasts that Las Vegas now has the 'largest private, municipal LTE/5G network' in the US. One private 5G network is being constructed at the Marine Corps Logistics Base in Albany, Georgia, using equipment from a variety of companies, including JMA Wireless and Perspecta Labs. The smart warehouse prototype will handle download speeds of up to 1.5 Gbps and latencies of 15 milliseconds on mid-band and mmWave bands. These instances signify the state and development in private 5G networks market in the country.

Based on frequency, the private 5G networks market is segmented into sub-6 GHz and mmWave. The sub-6 GHz frequency range includes a low band and a mid-band of spectrum frequencies, mostly 6GHz and lower. Governments in important countries, including China, the US, Japan, and South Korea, have recently released sub-6 GHz frequencies to support 5G services. For instance, in February 2023, Fibocom Wireless Inc., one of the global leading providers of Internet of Things (IoT) wireless solutions and wireless communication modules, announced the launch of the 5G Sub-6GHz module series at MWC Barcelona 2023. The modules are designed to deliver great cellular performance to mass data transmission applications such as mobile broadband, FWA, enterprise 5G, and IIoT using various advancements from the world's first 5G Advanced-ready modem-RF system, Snapdragon X75 and X72. mmWave frequencies are high band frequencies that offer extremely high connectivity with extremely minimal latency. These frequency ranges would be most useful where ultra-reliable connectivity is required, such as infrastructure connectivity. Furthermore, a few federal governments in major countries have released mmWave frequency bands to enable services in private 5G networks market. For example, the Federal Communication Commission (FCC) has issued many mmWave frequencies, including 24.25–24.45 GHz, 47.2–48.2

GHz, 24.75–25.25 GHz, and 38.6–40 GHz. Furthermore, Russia, Japan, South Korea, and Italy have released mmWave frequencies for increased data services. Thus, significant federal governments' strong emphasis on releasing mmWave frequencies is likely to boost the market for the mmWave segment during the forecast period

Based on end user, the private 5G networks market is segmented into manufacturing, energy and utilities, automotive, military and defense, government and public safety, and others. Solutions in Private 5G networks market enables manufacturers complete control over their network resources, allowing them to create millisecond SLAs. Manufacturers, for example, can ensure that assembly line robotics are guaranteed a particular level of resources since they are vital to output. Once these rules are established, artificial intelligence and machine learning continuously monitor the network and make dynamic changes to ensure that the rules are followed at all times. Moreover, manufacturers are able to communicate reliably with equipment, sensors, and workers across thousands of square feet regards to private 5G architecture. 5G employs many bands to provide the best coverage feasible in the given context. For example, high-band 5G can provide ultra-reliable indoor service, while low-band service allows for long-distance connectivity with other facilities. These bands are also utilized to pierce various surfaces such as sheet metal, steel, glass, and concrete, allowing service to be provided to even the most difficult industrial floors. The private 5G network offers various advantages in the manufacturing sector.

AT&T Inc; Broadcom Inc; Cisco Systems Inc; Huawei Technologies Co., Ltd.; Nokia Corporation; Qualcomm Technologies Inc.; Telefonaktiebolaget LM Ericsson; T-Systems International GmbH; Verizon Communications; and Vodafone Ltd are among the key Private 5G Networks Market players that are profiled in this market study.

The overall Private 5G Networks Market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the Private 5G Networks Market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the Private 5G Networks Market.

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