

South & Central America Private 5G Networks Market Forecast to 2030 - Regional Analysis - by Component (Hardware, Software, and Services), Frequency (Sub-6 GHz and mmWave), and End User (Manufacturing, Energy and Utilities, Automotive, Military and Defense, Government and Public Safety, and Others)

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Abstracts

The South & Central America private 5G networks market was valued at US\$ 114.28 million in 2022 and is expected to reach US\$ 1,503.53 million by 2030; it is estimated to record a CAGR of 38.0% from 2022 to 2030.

Increasing Deployment of Time-Sensitive Networking in Automotive Industries Fuels South & Central America Private 5G Networks Market

Time-sensitive networking (TSN) is a set of protocols for predictable, low-latency communication across Ethernet networks. As a result, it is suited for use in applications requiring real-time communication, such as autonomous driving and advanced driver assistance systems (ADAS). For automotive applications, private 5G networks have certain advantages over standard public cellular networks. They can offer more bandwidth, lower latency, and more reliability. This is due to the fact that private 5G networks are dedicated to a particular user or organization and do not have the same congestion difficulties as public networks. The combination of TSN and private 5G networks is creating new opportunities for the automotive industry. For example, TSN can be used to enable real-time communication between various sensors, actuators, and control systems in an autonomous vehicle. This is crucial for ensuring the safety and reliability of autonomous driving systems. TSN technologies are emerging. For instance, the IEEE Standards Association advances new TSN application profiles as

adoption increases in the automotive industry. Therefore, the growing interest in TSN in the automotive industry is an opportunity for growth in the private 5G network market. As the automotive industry continues to develop and deploy autonomous vehicles and ADAS systems, the demand for private 5G networks is expected to continue to grow.

South & Central America Private 5G Networks Market Overview

The South America (SAM) Private 5G Networks market is segmented into Brazil, Argentina, and the Rest of SAM. The private 5G network market in South America (SAM) is expected to grow significantly in the coming years. Enterprises in the region are increasingly looking to deploy private 5G networks to improve their operational efficiency and competitiveness. Private 5G networks offer a number of advantages over public 5G networks, including dedicated bandwidth, improved security, and lower latency. For instance, in June 2023, the Spanish telecoms company and its vendor partner are touting their abilities to bring digital transformation to Latin American businesses. The pair intend to offer Nokia's portfolio of industrial-grade private wireless network and digitalization platform solutions through their newly announced partnership, focusing primarily on what they describe as "the most promising industries in the region," which are ports, mining, energy, and manufacturing. The benefits of LTE and 5G private wireless will enable Industry 4.0 across industries. In October 2023, Jacto-a Brazilian multinational firm in the machinery sector-chose Nokia to build Latin America's first industrial-grade private wireless 4.9G/LTE and 5G network for the agricultural machinery industry. Therefore, the private 5G network market in SAM is expected to grow rapidly in the coming years, driven by increasing government support, growing demand from enterprises, and an expanding range of applications.

South & Central America Private 5G Networks Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Private 5G Networks Market Segmentation

The South & Central America private 5G networks market is segmented based on component, frequency, end user, and country. Based on component, the South & Central America private 5G networks market is categorized into hardware, software, and services. The hardware segment held the largest market share in 2022.

In terms of frequency, the South & Central America private 5G networks market is bifurcated into sub-6GHz and mmwave. The sub-6GHz segment held a larger market

share in 2022.

By end user, the South & Central America private 5G networks market is categorized into manufacturing, energy and utilities, automotive, military and defense, government and public safety, and others. The manufacturing segment held the largest market share in 2022.

Based on country, the South & Central America private 5G networks market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America private 5G networks market share in 2022.

Cisco Systems Inc, Huawei Technologies Co Ltd, Nokia Corp, Telefonaktiebolaget LM Ericsson, T-Systems International GmbH, Vodafone Group Plc, AT&T, Qualcomm Inc, and Amazon Web Services Inc are some of the leading companies operating in the South & Central America private 5G networks market.

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