

Asia Pacific 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)

<https://marketpublishers.com/r/AA05364B1595EN.html>

Date: June 2024

Pages: 108

Price: US\$ 2,485.00 (Single User License)

ID: AA05364B1595EN

Abstracts

The Asia Pacific private 5G networks market was valued at US\$ 441.23 million in 2022 and is expected to reach US\$ 6,496.98 million by 2030; it is estimated to record a CAGR of 40.0% from 2022 to 2030.

Increasing Deployment of Time-Sensitive Networking in Automotive Industries Boosts Asia Pacific 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.

Asia Pacific Private 5G Networks Market Overview

Asia Pacific is home to some of the world's largest and most innovative economies, and many enterprises in the region are already looking to adopt private 5G networks to improve their operational efficiency and productivity. For example, in China, a number of leading manufacturers, such as Huawei and ZTE, are using private 5G networks to implement smart manufacturing solutions. In South Korea, Samsung Electronics Co. Ltd. and SK Telecom announced that the two companies successfully developed and trialed the next-generation 5G core network. Both companies intend to identify new 5G use cases by enhancing their ability to effectively install, provision, and activate new apps. With private 5G networks, Samsung and SKT are developing advanced network capabilities to enable the delivery of these new immersive capabilities to consumers and increase the accessibility and deployment ease of 5G for enterprises. Moreover, governments in Asia Pacific are playing an important role in promoting the deployment of private 5G networks. For example, the Indian government has launched a number of initiatives to support the development of a private 5G ecosystem in the country. The Japanese government has also allocated a significant amount of funding to support the deployment of private 5G networks in the country. Therefore, the private 5G network market in Asia Pacific is expected to witness significant growth in the coming years, driven by a number of factors, including the rising demand for high-speed and reliable connectivity from enterprises, growing government support, and the increasing maturity of the 5G ecosystem.

Asia Pacific Private 5G Networks Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Private 5G Networks Market Segmentation

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

Based on frequency, the Asia Pacific private 5G networks market is bifurcated into

sub-6GHz and mmwave. The sub-6GHz segment held a larger market share in 2022.

Based on end user, the Asia Pacific 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 Asia Pacific private 5G networks market is segmented into China, Japan, South Korea, Australia, India, and the Rest of Asia Pacific. China dominated the Asia Pacific private 5G networks market share in 2022.

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

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. ASIA PACIFIC PRIVATE 5G NETWORKS MARKET LANDSCAPE

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 List of Vendors in Value Chain

5. ASIA PACIFIC PRIVATE 5G NETWORKS MARKET - BY KEY INDUSTRY DYNAMICS

- 5.1 Private 5G Networks Market - Key Industry Dynamics
- 5.2 Market Drivers
 - 5.2.1 Increasing Demand for IoT
 - 5.2.2 Rising Digitalization across Enterprises
- 5.3 Market Restraints
 - 5.3.1 High Deployment and Maintenance Cost
 - 5.3.2 Limited Coverage Area
- 5.4 Market Opportunities
 - 5.4.1 Increasing Deployment of Time-Sensitive Networking in Automotive Industries
 - 5.4.2 Growing adoption of Private 5G Networks in Mining Industry
- 5.5 Future Trends

- 5.5.1 Increasing use of 5G small cells
- 5.6 Impact of Drivers and Restraints:

6. PRIVATE 5G NETWORKS MARKET - ASIA PACIFIC MARKET ANALYSIS

- 6.1 Private 5G Networks Market Revenue (US\$ Million), 2022 - 2030
- 6.2 Private 5G Networks Market Forecast and Analysis

7. ASIA PACIFIC PRIVATE 5G NETWORKS MARKET ANALYSIS - BY COMPONENT

- 7.1 Hardware
 - 7.1.1 Overview
 - 7.1.2 Hardware Market, Revenue and Forecast to 2030 (US\$ Million)
- 7.2 Software
 - 7.2.1 Overview
 - 7.2.2 Software Market, Revenue and Forecast to 2030 (US\$ Million)
- 7.3 Services
 - 7.3.1 Overview
 - 7.3.2 Services Market, Revenue and Forecast to 2030 (US\$ Million)

8. ASIA PACIFIC PRIVATE 5G NETWORKS MARKET ANALYSIS - BY FREQUENCY

- 8.1 Sub-6 GHz
 - 8.1.1 Overview
 - 8.1.2 Sub-6 GHz Market Revenue and Forecast to 2030 (US\$ Million)
- 8.2 mmWave
 - 8.2.1 Overview
 - 8.2.2 mmWave Market Revenue and Forecast to 2030 (US\$ Million)

9. ASIA PACIFIC PRIVATE 5G NETWORKS MARKET ANALYSIS - BY END USER

- 9.1 Manufacturing
 - 9.1.1 Overview
 - 9.1.2 Manufacturing Market Revenue and Forecast to 2030 (US\$ Million)
- 9.2 Energy and Utilities
 - 9.2.1 Overview
 - 9.2.2 Energy and Utilities Market Revenue and Forecast to 2030 (US\$ Million)
- 9.3 Automotive

- 9.3.1 Overview
- 9.3.2 Automotive Market Revenue and Forecast to 2030 (US\$ Million)
- 9.4 Military and Defense
 - 9.4.1 Overview
 - 9.4.2 Military and Defense Market Revenue and Forecast to 2030 (US\$ Million)
- 9.5 Government and Public Safety
 - 9.5.1 Overview
 - 9.5.2 Government and Public Safety Market Revenue and Forecast to 2030 (US\$ Million)
- 9.6 Others
 - 9.6.1 Overview
 - 9.6.2 Others Market Revenue and Forecast to 2030 (US\$ Million)

10. ASIA PACIFIC PRIVATE 5G NETWORKS MARKET - COUNTRY ANALYSIS

- 10.1 Asia Pacific
 - 10.1.1 Asia Pacific Private 5G Networks Market Overview
 - 10.1.2 Asia Pacific Private 5G Networks Market Revenue and Forecasts and Analysis - By Country
 - 10.1.2.1 Asia Pacific Private 5G Networks Market Revenue and Forecasts and Analysis - By Country
 - 10.1.2.2 China Private 5G Networks Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 10.1.2.2.1 China Private 5G Networks Market Breakdown by Component
 - 10.1.2.2.2 China Private 5G Networks Market Breakdown by Frequency
 - 10.1.2.2.3 China Private 5G Networks Market Breakdown by End User
 - 10.1.2.3 Japan Private 5G Networks Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 10.1.2.3.1 Japan Private 5G Networks Market Breakdown by Component
 - 10.1.2.3.2 Japan Private 5G Networks Market Breakdown by Frequency
 - 10.1.2.3.3 Japan Private 5G Networks Market Breakdown by End User
 - 10.1.2.4 South Korea Private 5G Networks Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 10.1.2.4.1 South Korea Private 5G Networks Market Breakdown by Component
 - 10.1.2.4.2 South Korea Private 5G Networks Market Breakdown by Frequency
 - 10.1.2.4.3 South Korea Private 5G Networks Market Breakdown by End User
 - 10.1.2.5 Australia Private 5G Networks Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 10.1.2.5.1 Australia Private 5G Networks Market Breakdown by Component

- 10.1.2.5.2 Australia Private 5G Networks Market Breakdown by Frequency
- 10.1.2.5.3 Australia Private 5G Networks Market Breakdown by End User
- 10.1.2.6 India Private 5G Networks Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 10.1.2.6.1 India Private 5G Networks Market Breakdown by Component
 - 10.1.2.6.2 India Private 5G Networks Market Breakdown by Frequency
 - 10.1.2.6.3 India Private 5G Networks Market Breakdown by End User
- 10.1.2.7 Rest of Asia Pacific Private 5G Networks Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 10.1.2.7.1 Rest of Asia Pacific Private 5G Networks Market Breakdown by Component
 - 10.1.2.7.2 Rest of Asia Pacific Private 5G Networks Market Breakdown by Frequency
 - 10.1.2.7.3 Rest of Asia Pacific Private 5G Networks Market Breakdown by End User

11. COMPETITIVE LANDSCAPE

- 11.1 Heat Map Analysis by Key Players

12. INDUSTRY LANDSCAPE

- 12.1 Overview
- 12.2 Market Initiative
- 12.3 Product Development

13. COMPANY PROFILES

- 13.1 Cisco Systems Inc
 - 13.1.1 Key Facts
 - 13.1.2 Business Description
 - 13.1.3 Products and Services
 - 13.1.4 Financial Overview
 - 13.1.5 SWOT Analysis
 - 13.1.6 Key Developments
- 13.2 Huawei Technologies Co Ltd
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview

- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments
- 13.3 Nokia Corp
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 Telefonaktiebolaget LM Ericsson
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 T-Systems International GmbH.
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Verizon Communications Inc
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Vodafone Group Plc
 - 13.7.1 Key Facts
 - 13.7.2 Business Description
 - 13.7.3 Products and Services
 - 13.7.4 Financial Overview
 - 13.7.5 SWOT Analysis
 - 13.7.6 Key Developments
- 13.8 AT&T Inc
 - 13.8.1 Key Facts

- 13.8.2 Business Description
- 13.8.3 Products and Services
- 13.8.4 Financial Overview
- 13.8.5 SWOT Analysis
- 13.8.6 Key Developments
- 13.9 Qualcomm Inc
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 Amazon Web Services Inc
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 Financial Overview
 - 13.10.5 SWOT Analysis
 - 13.10.6 Key Developments

14. APPENDIX

- 14.1 About the Insight Partners
- 14.2 Word Index

I would like to order

Product name: Asia Pacific 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)

Product link: <https://marketpublishers.com/r/AA05364B1595EN.html>

Price: US\$ 2,485.00 (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/AA05364B1595EN.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