

Asia Pacific Private LTE Market Forecast to 2030 - Regional analysis - by Component [Solution and Services (Professional Services and Managed Services)], Type (FDD and TDD), and End User (Manufacturing, Energy & Utilities, Healthcare, Transportation, Mining, and Others)

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Abstracts

The Asia Pacific private LTE market was valued at US\$ 1,357.90 million in 2022 and is expected to reach US\$ 3,624.47 million by 2030; it is estimated to grow at a CAGR of 13.1% from 2022 to 2030.

Demand for Ultra-Reliable, Low Latency Communication Boosts Asia Pacific Private LTE Market.

The demand for greater bandwidth grows as people interact in high-definition video and receive increasingly immersive experiences with virtual reality and cloud gaming. Machines, too, rely on high-speed, low-latency networking, especially as industrial processes become more automated.

Private LTE is being built to enable services for latency-sensitive devices in applications such as autonomous driving, factory automation, remote surgery, mission-critical communications, and VR/AR entertainment. These applications require sub-millisecond latency and error rates of fewer than one packet per 10⁵. Ultra-reliable low-latency communications (URLLC) application cases have stringent latency and reliability requirements.

Cellular networks encounter challenges due to channel fading, interference levels, and

user equipment (UE) movement. Private LTE technology enables high reliability, low latency, and optimal multiplexing of URLLC and other traffic in the system. Throughout the projection period, remote LTE deployment must be planned to meet high latency and reliability standards for URLLC, i.e., be suitable for the private LTE market.

Asia Pacific Private LTE Market Overview

Asia Pacific is constantly witnessing a growing economy, leading to growth in various sectors, including manufacturing, infrastructure, and technology. Many of the region's economies are focusing on autonomous vehicles, smart cities, and IoT to empower their economy further. The investors avoid high-tech costs investment in the US. They are diverting toward APAC to invest in significant business opportunities, which include growth of LTE technology with the acceleration in the adoption of digital transformation across various countries in the region. The Asia Pacific private LTE market is segmented into South Korea, India, China, Japan, Australia, and the Rest of Asia Pacific.

The massive populations of China and India, the increasing middle-class population in these countries, and the growing telecom sector in both countries are projected to grow due to the deployment of LTE. The advancement in mobile technology and connected infrastructure across China, Japan, and South Korea will further boost the demand for private LTE. Moreover, the growing smartphone penetration in Asia Pacific is a significant factor driving the private LTE market across the region. The development of LTE networks and the accessibility of low-cost Android smartphones boost the demand for private LTE networks to engage more users. Furthermore, China is the largest producer of passenger cars globally; India, Japan, and South Korea are some of the primary vehicle manufacturing countries. The region is the third-largest pharmaceutical producer after North America and Europe. The supportive Government and favorable initiatives in many Asian countries, such as the price reform in Japan and China, the Food and Drug Administration's reform in China, supportive funding in Southeast Asia, and growing digitalization in the pharmaceutical industry are the major factors driving the private LTE market in the region.

Asia Pacific Private LTE Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Private LTE Market Segmentation

The Asia Pacific private LTE market is segmented based on component, type, end user,

and country. Based on component, the Asia Pacific private LTE market is segmented into solution and services . The services is further bifurcated into professional and managed services. The solution segment held a larger market share in 2022.

Based on type, the Asia Pacific private LTE market is bifurcated into FDD and TDD. The FDD held a larger market share in 2022.

Based on end user, the Asia Pacific private LTE market is segmented into manufacturing, energy & utilities, healthcare, transportation, mining, and others . The manufacturing held the largest market share in 2022.

Based on country, the Asia Pacific private LTE market is segmented into China, Japan, South Korea, India, Australia, and the Rest of Asia Pacific. China dominated the Asia Pacific private LTE market share in 2022.

Cisco Systems Inc, Telefonaktiebolaget LM Ericsson, Huawei Investment & Holding Co Ltd, Samsung Group, Verizon Communications Inc, Star Solutions, Sierra Wireless Inc, and Kyndryl Holdings Inc are some of the leading companies operating in the Asia Pacific private LTE market.

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