

# **Asia Pacific Embedded Systems Market Forecast to 2030 - Regional Analysis - by Component [Hardware (Sensor, Microcontroller, Processors and ASICs, Memory, and Others) and Software], Functionality (Real-Time Embedded Systems, Standalone Embedded Systems, Networked Embedded Systems, and Mobile Embedded Systems), and Application (Automotive, Telecommunication, Healthcare, Industrial, Consumer Electronics, and Others)**

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## **Abstracts**

The Asia Pacific embedded systems market was valued at US\$ 39,773.40 million in 2022 and is expected to reach US\$ 64,536.15 million by 2030; it is estimated to register a CAGR of 6.2% from 2022 to 2030.

### **Integration of 5G Fuels Asia Pacific Embedded Systems Market**

5G is expected to empower new business models and use cases in a wide range of embedded applications, especially in the telecommunication industry. The industry is engaged in deploying large amounts of networking infrastructure, such as virtual radio access networks (vRAN). The integration of 5G networks has a transformative impact on the embedded systems market as 5G provides higher data rates, massive device connectivity, and lower latency compared to previous generations of technology. It can open up possibilities for real-time applications, large-scale IoT deployments, autonomous systems, and ultra-high-definition video streaming. Growing investment and increasing adoption of 5G in various industries such as automotive, healthcare, consumer electronics, banks, and data centers are expected to create growth

opportunities in the market. For instance, telecom operators across the globe are planning to invest US\$ 380 billion in the deployment of 5G by 2025 to focus on new services for consumers and enterprises. 5G allows remote monitoring and controlling of embedded systems by facilitating tasks like remote diagnostics and maintenance. Moreover, the technology is used to create a new system-on-a-chip (SoC) platform that helps the user deal with plane traffic, payload control, user scheduling, and front-end processing. Increasing the power of SOC platforms deepens the combination of 5G and embedded systems. The integration of 5G and SOC will develop a 5G chip used in embedded processors. The 5G chip supports the user in automatically limiting the capacity of the wireless communication system and sending reasonable amounts of data through the system. These chips are widely adopted by industries such as consumer electronics, healthcare, IT & telecommunications, energy & utilities, and manufacturing.

5G offers low latency in crucial applications such as autonomous vehicles and real-time industrial automation. An embedded system can process and respond to data with minimal delay by enhancing its effectiveness. 5G-engineered embedded devices used in smart camera surveillance systems deliver fast response rates, which is anticipated to create opportunities in the market during the forecast period.

### Asia Pacific Embedded Systems Market Overview

The market in Asia Pacific is segmented into Australia, China, Japan, India, South Korea, and the Rest of Asia Pacific. Rapid industrialization has improved Asia Pacific's economic conditions. Certain developing economies in the region, such as India and South Korea, have experienced a significant transition in their economies and overall GDP growth. This has resulted in a surge in spending on high-end items and technology. The proliferation of low-cost smartphone devices and falling service plan costs are the primary factors driving consumer electronics market growth, particularly in terms of smartphone adoption across Asia Pacific.

Due to the introduction of digitization and better economic conditions in the region, several countries in Asia Pacific are seeing an increase in demand for smart gadgets. The presence of various smart TV manufacturers-such as Samsung Electronics and Sony Corporation-that offer high-performance smart TVs is driving their acceptance in the region even further. In response to increased demand in Japan, China, India, and South Korea, these companies are launching new smart TVs in Asia Pacific. Therefore, the rise in the demand for consumer electronics is acting as a catalyst for the growth of the embedded system market.

## Asia Pacific Embedded Systems Market Revenue and Forecast to 2030 (US\$ Million)

### Asia Pacific Embedded Systems Market Segmentation

The Asia Pacific embedded systems market is segmented based on component, functionality, application, and country.

Based on component, the Asia Pacific embedded systems market is bifurcated into hardware and software. The hardware segment held a larger Asia Pacific embedded systems market share in 2022. The hardware segment is further subsegmented into sensor, microcontroller, processors and ASICs, memory, and others.

In terms of functionality, the Asia Pacific embedded systems market is segmented into real-time embedded systems, standalone embedded systems, networked embedded systems, and mobile embedded systems. The mobile embedded systems segment held the largest Asia Pacific embedded systems market share in 2022.

By applications, the Asia Pacific embedded systems market is segmented into automotive, telecommunication, healthcare, industrial, consumer electronics, and others. The consumer electronics segment held the largest Asia Pacific embedded systems market share in 2022.

Based on country, the Asia Pacific embedded systems market is categorized into China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific embedded systems market in 2022.

Advantech Co Ltd, Infineon Technologies AG, Intel Corp, Marvell Technology Inc, Microchip Technology Inc, NXP Semiconductors NV, Qualcomm Inc, Renesas Electronics Corp, STMicroelectronics NV, and Texas Instruments Inc are some of the leading companies operating in the Asia Pacific embedded systems market.

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