

South & Central America 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 South & Central America embedded systems market was valued at US\$ 3,431.80 million in 2022 and is expected to reach US\$ 4,354.68 million by 2030; it is estimated to register a CAGR of 3.0% from 2022 to 2030.

Integration of 5G Fuels South & Central America 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.

South & Central America Embedded Systems Market Overview

The growth of the South & Central America embedded system market is driven by increasing demand for comprehensive embedded systems. The expansion of the automotive industry in South & Central America is driving the demand for embedded systems. For instance, as per the Ministry of Trade of Colombia, the country ranks as the third-largest automobile assembler in South & Central America (after Brazil and Argentina) and the second-largest motorcycle producer in the region after Brazil. Columbia has eight vehicle assembly plants, with three in Sofasa, CCA, and Mazda, which represent 99% of country production and 32% of sales. Growing demand for light vehicles, trucks, buses, and motorcycles in the region increases the adoption of embedded systems among vehicle manufacturers. The embedded system helps in recording speed, distance, and driving in the truck. Moreover, the system also has safety features; it alerts drivers of dangers on the road reporting nearby incidents, vehicle issues, or any other inconvenience. This helps the driver take instant corrective action from the vehicle's ADAS features or built-in communications to service centers.

South & Central America Embedded Systems Market Revenue and Forecast to 2030 (US\$ Million)

South & Central America Embedded Systems Market Segmentation

The South & Central America embedded systems market is segmented based on component, functionality, application, and country.

Based on component, the South & Central America embedded systems market is bifurcated into hardware and software. The hardware segment held a larger South & Central America 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 South & Central America 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 South & Central America embedded systems market share in 2022.

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

Based on country, the South & Central America embedded systems market is categorized into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America embedded systems market in 2022.

Advantech Co Ltd, Infineon Technologies AG, Intel Corp, Marvell 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 South & Central America embedded systems market.

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