Global Embedded Systems Market Research Report: By Type (Hardware, Software), Microcontroller Performance (Small-Scale Embedded System, Medium-Scale Embedded System, Large-Scale Embedded System), Functionality (Stand-Alone Embedded System, Real-Time Embedded System, Mobile Embedded System, Networked Embedded System), Application (Automotive, Telecommunication, Healthcare, Industrial, Consumer Electronics, Military & Aerospace, Others) and Region (North America, Europe, Asia-Pacific and Rest of the World) - Forecast till 2025

Market Synopsis

Global Embedded Systems Market is estimated to reach USD 291.25 Billion by 2025, registering a CAGR of 5.8% during the forecast period of 2019–2025.

Embedded systems are defined as a combination of both hardware and software which are integrated with a program or are designed to perform functions within systems or devices. The advancement in technology and the decline in the cost of semiconductors are the factors contributing to the growth of the market. The embedded systems are used for assisting, controlling or monitoring the operations associated with equipment, devices, and machinery. These systems are being developed to perform the task within a shorter time frame which would result in the improved overall performance of the system.

The increasing demand for smartphones, laptops, desktops, communications systems, and others across the globe is one of the major factors contributing to the growth of the embedded systems market. According to GSMA, there were 5.1 billion new mobile subscribers in 2018 and this number has been forecasted to reach 5.8 Billion by 2025, growing at a CAGR of 1.9% during the forecast period of 2018–2025. Moreover, the commercialization of 5G is also expected to contribute to the growth of the market. However, the fluctuating prices of semiconductors is a factor hindering the growth of the market.

Segmentation

The Global Embedded Systems Market has been segmented based on Type Microcontroller Performance, Functionality, Application, and Region.

By type, the market has been segmented hardware and software.

By microcontroller performance, the market has been segmented into small-scale embedded systems, medium-scale embedded systems, large-scale embedded systems.

By functionality, the market has been segmented into stand-alone embedded systems, real-time embedded systems, mobile embedded systems, and networked embedded systems.

By application, the market has been segmented into automotive, telecommunication, healthcare, industrial, consumer electronics, military & aerospace, and others.

By region, the market has been segmented into North America, Europe, Asia-Pacific, and the rest of the world.

Regional Analysis

The Global Embedded Systems Market is estimated to grow at a significant rate during the forecast period from 2019 to 2024. The geographical analysis of embedded systems has been done for North America (the US, Canada, and Mexico), Europe (the UK, Germany, France, Spain, Italy, and the rest of Europe), Asia-Pacific (China, Japan, India, and the rest of Asia-Pacific), and the rest of the world (the Middle East and Africa and South America).

North America accounted for the largest market share in 2018 due to high investments made by the companies for the development of new technologies. The rising urbanization and demand for smart appliances and the presence of large-scale industries in the region are some of the major factors driving the market in the region. Moreover, the presence of various companies such as Atmel Corporation, Intel Corporation, Texas Instruments, and others is contributing to the growth of the market by providing various systems to different industries to perform the task associated with their applications. Based on countries, the region has been segmented as the US, Canada, and Mexico. The US accounts for the largest market share in the region due to the presence of advanced technology and the increasing development and production of various IoT devices. Additionally, the rapid adoption of smart homes, smart kitchens, connected cars, and others in the country is also contributing to the growth of the market. Canada is the fastest-growing country in the region due to increasing investments made by the manufacturing companies for the development of new devices and systems.

Key Players

MRFR recognizes the key players in the Global Embedded Systems Market as Atmel Corporation (US), Intel Corporation (US), Texas Instruments (US), Infineon Technologies AG (Germany), NXP Semiconductors N.V. (Netherlands), Microsoft Corporation (US), Samsung Electronics Corporation (South Korea), Renesas Electronics Corporation (Japan), Analog Devices Inc. (US), Kontron AG (Germany), Advantech Co., Ltd. (Taiwan), ARM Limited (UK), Fujitsu Limited (Japan), Microchip Technology Inc. (US), Xilinx, Inc. (US), STMicroelectronics (Switzerland), among others.

The prominent players keep innovating and investing in research and development to present a cost-effective product portfolio. There have been recent mergers and acquisitions among the key players, a strategy the business entities leverage to strengthen their reach to the customers.

Intended Audience

- Military & Defense
- Investors and consultants
- System Integrators
- Government Organizations
- Research/Consultancy firms
- Technology solution providers
- Telecommunication Industry
- Security Solution Providers
- Industries
- Energy & Power players
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