

Global Embedded Systems Market Insights, Forecast to 2026

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Abstracts

An embedded system is a combination of software and hardware which together facilitate the accurate functioning of a target device. The significant characteristics of an embedded system are speed, power, size, accuracy, reliability and adaptability. Embedded systems can be defined as application-specific, special purpose systems and they are designed typically for meeting real time constraints. These systems are used across a diverse range of application areas which include automotive, telecommunication, healthcare, industrial, consumer electronics, and military & aerospace among others. The global embedded system has been segmented on the basis of hardware and software, including processor IP, microcontrollers and microprocessors, digital signal processors, application-specific integrated circuit, field processing gate arrays, embedded boards, operating systems, software development and testing tools, middleware, open-source software and tools.

Embedded hardware covered over 93% of the market share in 2015, and is projected to dominate the market over the estimated period. Product includes microcontrollers, Digital Signal Processors (DSP), microprocessors and others. Embedded software includes middleware tool and operating system (OS). Embedded systems have real-time restraints since they are used for a variety of safety vital purposes. This has led to the requirement for proficient software modified for the target purpose. This sector is likely to rise at a CAGR of 6.36% from 2016 to 2021.

Automotive applications covered over 24 % of the overall market in 2015 and are projected to remain the largest sector over the forecast period. In automotive industry, embedded systems are used for safety, infotainment, and engine control among others. Growing demand for vehicles outfitted with car-to-road communication facilities and efficient navigation is estimated to drive the market. Furthermore, shifting focus towards hybrid electric vehicles (HEV) and electric vehicles (EV) to control emission is estimated to fuel embedded system market growth. Healthcare is anticipated to be the fastest

rising application, at a CAGR of 8.35% from 2016 to 2021. Handheld and Portable medical equipment and devices such as essential signs monitoring systems make wide use of embedded systems. Consumer electronics including HVAC (heating, ventilation, and air conditioning), microwave ovens and mobile phones, uses embedded software and hardware is projected to nurture the market over the next five years. Industrial applications include infrastructure, energy, and process control among others. Data feedback and acquisition control systems for automation are anticipated to provide positive avenues to market growth for industrial applications.

Key hardware components include microcontrollers, DSPs and microprocessors etc. Key market players include NXP (Freescale Semiconductor), Renesas Electronics, Intel Corporation, Xilinx, Altera, Infineon Technologies, Microchip, Fujitsu Limited, STMicroelectronics, Atmel and Texas Instruments, Inc. among others.

The embedded system industry is moderately competitive, with top ten vendors accounting for about 40 % of the industry share. Renesas Electronics is the global largest vendors accounted for 7.66 % of the industry share in 2015 and offers wide range of components which in turn intensifies the dependency of OEMs, while the embedded systems 'revenue of this company is decreasing year by year. In 2016, with the acquisition of a leading embedded solutions provider intersil, Renesas Electronics 'revenue will show an upward trend. Other key players include ARM Limited, Advantech, Kontron, and Analog Devices among others.

Since the COVID-19 virus outbreak in December 2019, the disease has spread to almost 100 countries around the globe with the World Health Organization declaring it a public health emergency. The global impacts of the coronavirus disease 2019 (COVID-19) are already starting to be felt, and will significantly affect the Embedded Systems 4900 market in 2020.

COVID-19 can affect the global economy in three main ways: by directly affecting production and demand, by creating supply chain and market disruption, and by its financial impact on firms and financial markets.

The outbreak of COVID-19 has brought effects on many aspects, like flight cancellations; travel bans and quarantines; restaurants closed; all indoor events restricted; over forty countries state of emergency declared; massive slowing of the supply chain; stock market volatility; falling business confidence, growing panic among the population, and uncertainty about future.

This report also analyses the impact of Coronavirus COVID-19 on the Embedded Systems 4900 industry.

Based on our recent survey, we have several different scenarios about the Embedded Systems 4900 YoY growth rate for 2020. The probable scenario is expected to grow by a xx% in 2020 and the revenue will be xx in 2020 from US\$ 77040 million in 2019. The market size of Embedded Systems 4900 will reach xx in 2026, with a CAGR of xx%

from 2020 to 2026.

With industry-standard accuracy in analysis and high data integrity, the report makes a brilliant attempt to unveil key opportunities available in the global Embedded Systems market to help players in achieving a strong market position. Buyers of the report can access verified and reliable market forecasts, including those for the overall size of the global Embedded Systems market in terms of both revenue and volume.

Players, stakeholders, and other participants in the global Embedded Systems market will be able to gain the upper hand as they use the report as a powerful resource. For this version of the report, the segmental analysis focuses on sales (volume), revenue and forecast by each application segment in terms of sales and revenue and forecast by each type segment in terms of revenue for the period 2015-2026.

Production and Pricing Analyses

Readers are provided with deeper production analysis, import and export analysis, and pricing analysis for the global Embedded Systems market. As part of production analysis, the report offers accurate statistics and figures for production capacity, production volume by region, and global production and production by each type segment for the period 2015-2026.

In the pricing analysis section of the report, readers are provided with validated statistics and figures for price by manufacturer and price by region for the period 2015-2020 and price by each type segment for the period 2015-2026. The import and export analysis for the global Embedded Systems market has been provided based on region.

Regional and Country-level Analysis

The report offers an exhaustive geographical analysis of the global Embedded Systems market, covering important regions, viz, North America, Europe, China, Japan and South Korea. It also covers key countries (regions), viz, U.S., Canada, Germany, France, U.K., Italy, Russia, China, Japan, South Korea, India, Australia, Taiwan, Indonesia, Thailand, Malaysia, Philippines, Vietnam, Mexico, Brazil, Turkey, Saudi Arabia, UAE, etc.

The report includes country-wise and region-wise market size for the period 2015-2026. It also includes market size and forecast by each application segment in terms of volume for the period 2015-2026.

Competition Analysis

In the competitive analysis section of the report, leading as well as prominent players of

the global Embedded Systems market are broadly studied on the basis of key factors. The report offers comprehensive analysis and accurate statistics on sales by the player for the period 2015-2020. It also offers detailed analysis supported by reliable statistics on price and revenue (global level) by player for the period 2015-2020.

On the whole, the report proves to be an effective tool that players can use to gain a competitive edge over their competitors and ensure lasting success in the global Embedded Systems market. All of the findings, data, and information provided in the report are validated and revalidated with the help of trustworthy sources. The analysts who have authored the report took a unique and industry-best research and analysis approach for an in-depth study of the global Embedded Systems market.

The following manufacturers are covered in this report:

Renesas Electronics

STMicroelectronics

NXP(Freescale)

Texas Instruments, Inc.

Xilinx

Altera

Infineon Technologies

Microchip

Intel Corporation

Fujitsu Limited

Atmel

ARM Limited

Advantech

Kontron

Analog Devices

Embedded Systems Breakdown Data by Type

Embedded Hardware

Embedded Software

Embedded Systems Breakdown Data by Application

Automotive

Telecommunication

Healthcare

Industrial

Consumer Electronics

Military & Aerospace

Others

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