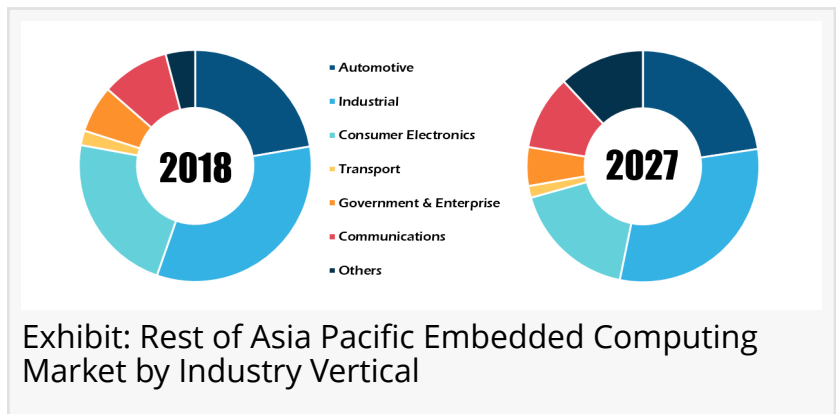


Embedded Computing Market Overview with Detailed Analysis, Competitive landscape, Forecast to 2027

Embedded Computing Market is expected to grow at a CAGR of 8.7% during the forecast period 2018 - 2027, to account to US\$ 67.29 Bn by 2027.

PUNE, INDIA, December 12, 2019 /EINPresswire.com/ -- Geographically, Asia-Pacific holds the largest embedded computing market share, owing to rapid technological developments, and numerous investments in the APAC countries. The Asia-Pacific market for embedded

systems and solutions is also largely driven by factors such as growing internet of things (IoT), substantial growth in consumer electronics demand, rising connected cars market, and growing usage of robotics. Ever-increasing consumer electronics industry in the Asia Pacific is expected to provide a promising growth to the region in the embedded systems market during the forecast period. The region accounts for the major consumer electronics share in the global market, with China being the biggest country. Customer demand for advanced products along with emerging economies in the region is anticipated to offer a sound growth to the Asia Pacific. This factor is escalating the growth of the revenue size of embedded computing market in the Asia Pacific region. This as a result has positively impacted embedded computing market.



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Embedded systems are used in wide-ranging applications, which differs from low to high-cost consumer electronics to medical devices, industrial equipment to weapon control systems, entertainment devices and aerospace systems to academic equipment, among others. The automotive industry is expected to be a key driver for the embedded computing market. At present, a modern vehicle contains between 25 or 100 electronic control units (ECUs). These systems are generally portioned based on domains, namely real-time body controls and infotainment controls. The real-time body controls include a different category such as chassis control, body control, powertrain control, and active safety control. The second category, the infotainment controls, includes navigation, information management, computing, external communication, and entertainment. Embedded computing in modern vehicles is segmented into different domains, mainly differentiated by the criticality of the function executed. In general, each ECU integrates a processing element (single or multi-core processor), memory subsystems (including volatile and non-volatile), optional dedicated accelerators like cryptographic or image processing engines, power supply elements, and the interfaces to the different sensors, actuators, and network. Specific combinations are chosen depending on the requirements for each application.

The application of an embedded system in vehicles has witnessed a high growth in the past two decades owing to demand better features. Also, the emergence of autonomous cars is a key

factor expected to influence the demand for embedded systems in the automotive sector. In February 2019, STMicroelectronics collaborated with Virscient to allow quicker delivery of connected-car systems with ST's Telemaco3P automotive application processors. ST's Telemaco3P integrates Dual-Arm Cortex-A7 processors with an independent Arm Cortex-M3 subsystem, an embedded hardware security module, as well as a set of connectivity interfaces.

A huge number of players are operating in the embedded computing market, which is segmented based on their products. The market players are focused on establishing strong relationships with their customers. Also, the players significantly invest in their R&D to stay competitive to pursue lucrative market opportunities by reducing the development costs of their customers.

Some of the major players include Advantech Co., Ltd., Arms Holdings, Fujitsu, IBM Corporation, Intel Corporation, Microchip Technology Inc., STMicroelectronics, Qualcomm Technologies, Inc., Renesas Electronics Corporation, and Texas Instruments Incorporated, among others.

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Table of Content:

1. Introduction

1.1 Scope of the Study

1.2 The Insight Partners Research Report Guidance

1.3 Market Segmentation

2. Key Takeaways

3. Research Methodology

3.1 Coverage

3.2 Secondary Research

3.3 Primary Research

4. Embedded Computing Market Landscape

4.1 Market Overview

4.2 Ecosystem Analysis

4.3 PEST Analysis

4.3.1 North America PEST Analysis

4.3.2 Europe PEST Analysis

4.3.3 Asia Pacific - PEST Analysis

4.3.4 Middle East & Africa PEST Analysis

4.3.5 South America PEST Analysis

5. Embedded Computing Market - Key Industry Dynamics

5.1 Key Market Drivers

5.1.1 Automotive Industry is Expected to be the Prime Driver for the Embedded Computing Market

5.1.2 Industrial Sector to Ensure Embedded Computing's Formidable Growth Rate

5.1.3 Telecommunication Industry yet Another Strong Contender in the Embedded Computing Market

5.2 Key Market Restraints

5.2.1 Security Concerns Touted as the Major Restraint of the Embedded Computing Market

5.3 Key Market Opportunities

5.3.1 Bridging the Gap between Usability and Performance

5.4 Future Trends

5.4.1 Machine Learning at the Edge

5.5 Impact Analysis of Drivers And Restraints

Continue.....

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