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Embedded Computing Market by Type (Microprocessor, Microcontroller, Digital Signal Processor, ASIC, FPGA) and End User (Automotive, Industrial, Healthcare, Energy, Communications, Banking, Transport, Government, Robotics, Defense) - Global Opportunity Analysis and Industry Forecast, 2015 - 2022

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Abstracts

Embedded computing system is a combination of embedded hardware and software, designed to perform a specific dedicated function in an electronic device or a machine. It can work as an independent system or a part of a larger system. The hardware and software are two distinguished parts of any embedded computing system, which are activated by a set of commands called program to perform an operation as lone system. 'Embedded' denotes the fact that hardware and software are inseparable parts of the system. For embedded computing, microcontrollers (MCUs) or microprocessors (MPUs) or custom designed chips are used to run the system along with supporting software in ROM (Read Only Memory). They have strong characteristics of high speed, low power consumption, accuracy, adaptability, reliability, reusability, size and others. Elements in any embedded computing system include interfaces, input/output devices, display, memory and others. In general, it encompasses storage, timers, power supply, system application circuits & serial communication port.
Embedded computing systems are used to control, monitor or perform a specific function of an electronic equipment by fixed set of program, plan or rules. They perform functions such as reading the sensor inputs, processing that data, display required output, generating & transmitting commands and transforming the data into information. Embedded computing systems are vastly used in a variety of applications across sectors such as home and office, BFSI, security, automobile, defense, healthcare and

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other sectors. The market for embedded computing is driven by the growing adoption of technologically advanced consumer electronics and the increasing uptake of artificial intelligence across various industries. Other factors impacting the global embedded computing market include growing digitization in healthcare, industrial automation and increasing demand in sectors such as automobile, and defense among others. Further, the demand for embedded computing is increasing worldwide on account of potential growth in emerging economies as well as evolution in Internet of Things (IoT). However, the hardware of an embedded system has limitations of its own including limited life-span, memory capacity and others.
The market for embedded computing is segmented on the basis of its types, end users and geography. The types include hardware and software segment. The hardware segment further includes microprocessor, microcontroller, digital signal processor, and others (ASIC, & FPGA) sub-segment. The end users for embedded computing market include automotive, industrial, healthcare, energy, communications, consumer electronics and others (BFSI, defense and transportation).

KEY BENEFITS:

This report provides an in-depth knowledge of the world embedded computing market to elucidate opportunities in the market.

Current trends and future estimations have been outlined to determine the overall market potential and single out profitable trends to gain a stronger foothold.

A quantitative analysis of the current market trends and forecast from 2016 to 2022 has been provided to highlight the financial competency of the market.

Porter’s Five Forces analysis of the industry illustrates the potency of buyers and suppliers operating in the market.

Value chain analysis provides a clear understanding of the roles of stakeholders involved.

EMBEDDED COMPUTING MARKET SEGMENTATION:
BY TYPE

Hardware

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- Microprocessor
- Microcontroller
- Digital Signal Processor
- Others (ASIC & FPGA)

- Software

BY END USER

- Automotive
- Industrial
- Healthcare
- Energy
- Communications
- Consumers Electronics
- Others (Banking, Transport, Government, Robotics, Defense)

BY GEOGRAPHY

- North America
  - United State
  - Canada
  - Mexico

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- Europe
  - United Kingdom
  - Germany
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  - China
  - Japan
  - India
  - Singapore
  - South Korea
  - Rest of Asia-Pacific
- LAMEA
  - Latin America
  - Middle East
  - Africa

KEY PLAYERS

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Intel Corporation

Renesas Electronics Corporation

Fujitsu Limited

ARM Holdings plc.

International Business Machines Corporation

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