

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

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

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

Europe

United Kingdom

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

Singapore

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Atmel Corporation

Microchip Technology Inc.

Intel Corporation

Renesas Electronics Corporation

Fujitsu Limited

ARM Holdings plc.

International Business Machines Corporation

Microsoft Corporation

QUALCOMM Incorporated

Texas Instruments Incorporated

Contents

CHAPTER 1 INTRODUCTION

- 1.1 Report description
- 1.2 Key benefits
- 1.3 Market segmentation
- 1.4 Research methodology
 - 1.4.1 Secondary research
 - 1.4.2 Primary research
 - 1.4.3 Analyst tools and models
- 2.1 CXO perspective

CHAPTER 3 MARKET OVERVIEW

- 3.1 Market definition and scope
- 3.2 Key findings
 - 3.2.1 Top impacting factors
 - 3.2.2 Top winning strategies
 - 3.2.3 Top investment pockets
- 3.3 Value chain analysis
- 3.4 Porters five forces analysis
 - 3.4.1 Highly fragmented market leads to moderate bargaining power of suppliers
 - 3.4.2 Falling prices of consumer goods and variety of products lead to moderate bargaining power of buyers
 - 3.4.3 High investments and intense competition moderately restrict the entry of new firms
 - 3.4.4 Internal substitution leads to low threat of substitutes in the market
 - 3.4.5 Established strong brands, large number of market players and innovation lead to rivalry amongst the existing players
- 3.5 Market share analysis, 2015
- 3.6 Drivers
 - 3.6.1 Increasing penetration of consumer electronics
 - 3.6.2 Rising uptake of artificial intelligence
 - 3.6.3 Technological advancements in healthcare
 - 3.6.4 Increased automation of processes
 - 3.6.5 Increased demand in automotive and defense
- 3.7 Opportunities
 - 3.7.1 Potential growth in developing economies

3.7.2 Evolution in Internet of things (IoT)

3.8 Restraints

3.8.1 Difficulties in design and configuration

3.8.2 Limitations on hardware (Memory capacity and maintenance)

3.8.3 High initial investments

CHAPTER 4 WORLD EMBEDDED COMPUTING MARKET, BY TYPE

4.1 Market size & forecast

4.2 Hardware

4.2.1 Microprocessors

4.2.1.1 Key trends

4.2.1.2 Key growth factors and opportunities

4.2.1.3 Market size and forecast

4.2.2 Microcontrollers

4.2.2.1 Key trends

4.2.2.2 Key growth factors and opportunities

4.2.2.3 Market size and forecast

4.2.3 Digital Signal Processors

4.2.3.1 Key trends

4.2.3.2 Key growth factors and opportunities

4.2.3.3 Market size and forecast

4.2.4 Others (ASIC & FPGA)

4.2.4.1 Key trends

4.2.4.2 Key growth factors and opportunities

4.2.4.3 Market size and forecast

4.3 Software

4.3.1 Key trends

4.3.2 Key growth factors and opportunities

4.3.3 Market size and forecast

CHAPTER 5 WORLD EMBEDDED COMPUTING MARKET, BY END USER

5.1 Market size and forecast

5.2 Automotive

5.2.1 Key trends

5.2.2 Key growth factors and opportunities

5.2.3 Market size and forecast

5.3 Industrial automation

- 5.3.1 Key trends
- 5.3.2 Key growth factors and opportunities
- 5.3.3 Market size and forecast
- 5.4 Healthcare
 - 5.4.1 Key trends
 - 5.4.2 Key growth factors and opportunities
 - 5.4.3 Market size and forecast
- 5.5 Energy
 - 5.5.1 Key trends
 - 5.5.2 Key growth factors and opportunities
 - 5.5.3 Market size and forecast
- 5.6 Communication
 - 5.6.1 Key trends
 - 5.6.2 Key growth factors and opportunities
 - 5.6.3 Market size and forecast
- 5.7 Consumer electronics
 - 5.7.1 Key trends
 - 5.7.2 Key growth factors and opportunities
 - 5.7.3 Market size and forecast
- 5.8 Others (Banking, Transport, Government, Robotics, Defense)
 - 5.8.1 Key trends
 - 5.8.2 Key growth factors and opportunities
 - 5.8.3 Market size and forecast

CHAPTER 6 WORLD EMBEDDED COMPUTING MARKET, BY GEOGRAPHY

- 6.1 North America
 - 6.1.1 Key trends
 - 6.1.2 Key growth factors and opportunities
 - 6.1.3 Market size and forecast
 - 6.1.3.1 United States
 - 6.1.3.1.1 MARKET SIZE AND FORECAST
 - 6.1.3.2 Canada
 - 6.1.3.2.1 MARKET SIZE AND FORECAST
 - 6.1.3.3 mexico
 - 6.1.3.3.1 MARKET SIZE AND FORECAST
- 6.2 Europe
 - 6.2.1 Key trends
 - 6.2.2 Key growth factors and opportunities

6.2.3 Market size and forecast

6.2.3.1 United Kingdom

6.2.3.1.1 MARKET SIZE AND FORECAST

6.2.3.2 Germany

6.2.3.2.1 MARKET SIZE AND FORECAST

6.2.3.3 France

6.2.3.3.1 MARKET SIZE AND FORECAST

6.2.3.4 Spain

6.2.3.4.1 MARKET SIZE AND FORECAST

6.2.3.5 Italy

6.2.3.5.1 MARKET SIZE AND FORECAST

6.2.3.6 Rest of Europe

6.2.3.6.1 MARKET SIZE AND FORECAST

6.3 Asia-Pacific

6.3.1 Key trends

6.3.2 Key growth factors and opportunities

6.3.3 Market size and forecast

6.3.3.1 China

6.3.3.1.1 MARKET SIZE AND FORECAST

6.3.3.2 Japan

6.3.3.2.1 MARKET SIZE AND FORECAST

6.3.3.3 India

6.3.3.3.1 MARKET SIZE AND FORECAST

6.3.3.4 Singapore

6.3.3.4.1 MARKET SIZE AND FORECAST

6.3.3.5 South Korea

6.3.3.5.1 MARKET SIZE AND FORECAST

6.3.3.6 Rest of Asia-PACific

6.3.3.6.1 MARKET SIZE AND FORECAST

6.4 LAMEA

6.4.1 Key trends

6.4.2 Key growth factors and opportunities

6.4.3 Market size and forecast

6.4.3.1 Latin America

6.4.3.1.1 MARKET SIZE AND FORECAST

6.4.3.2 Middle East

6.4.3.2.1 MARKET SIZE AND FORECAST

6.4.3.3 Africa

6.4.3.3.1 MARKET SIZE AND FORECAST

CHAPTER 7 COMPANY PROFILE

7.1 Atmel Corporation

7.1.1 Company overview

7.1.2 Business performance

7.1.3 Strategic moves and developments of Atmel Corporation

7.1.4 SWOT analysis of Atmel Corporation

7.2 Microchip Technology Inc.

7.2.1 Company overview

7.2.2 Business performance

7.2.3 Strategic moves and developments of Microchip Technology Inc.

7.2.4 SWOT analysis of Microchip Technology Inc.

7.3 Intel Corporation

7.3.1 Company overview

7.3.2 Business performance

7.3.3 Strategic moves and developments of Intel Corporation

7.3.4 SWOT analysis of Intel Corporation

7.4 Renesas Electronics Corporation

7.4.1 Company overview

7.4.2 Business performance

7.4.3 Strategic moves and developments of Renesas Electronics Corporation

7.4.4 SWOT analysis of Renesas Electronics Corporation

7.5 Fujitsu Limited

7.5.1 Company overview

7.5.2 Business performance

7.5.3 Strategic moves and developments of Fujitsu Limited

7.5.4 SWOT analysis of Fujitsu Limited

7.6 ARM Holdings plc.

7.6.1 Company overview

7.6.2 Business performance

7.6.3 Strategic moves and developments of ARM Holdings plc.

7.6.4 SWOT analysis of ARM Holdings plc.

7.7 International Business Machines Corporation

7.7.1 Company overview

7.7.2 Business performance

7.7.3 Strategic moves and developments of International Business Machines Corporation

7.7.4 SWOT analysis of International Business Machines Corporation

7.8 Microsoft Corporation

7.8.1 Company overview

7.8.2 Business performance

7.8.3 Strategic moves and developments of Microsoft Corporation

7.8.4 SWOT analysis of Microsoft Corporation

7.9 QUALCOMM Incorporated

7.9.1 Company overview

7.9.2 Business performance

7.9.3 Strategic moves and developments of QUALCOMM Incorporated

7.9.4 SWOT analysis of QUALCOMM Incorporated

7.10 Texas Instruments Incorporated

7.10.1 Company overview

7.10.2 Business performance

7.10.3 Strategic moves and development of Texas Instruments Incorporated

7.10.4 SWOT analysis of Texas Instruments Incorporated

List Of Tables

LIST OF TABLES

TABLE 1 WORLD EMBEDDED COMPUTING MARKET REVENUE BY TYPE, 2015-2022 (\$MILLION)

TABLE 2 WORLD EMBEDDED HARDWARE MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 3 WORLD EMBEDDED SOFTWARE MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 4 WORLD DIGITAL SIGNAL PROCESSORS MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 5 WORLD OTHERS MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 6 WORLD EMBEDDED SOFTWARE MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 7 WORLD EMBEDDED COMPUTING MARKET REVENUE BY END USER, 2015-2022 (\$MILLION)

TABLE 8 WORLD AUTOMOTIVE EMBEDDED COMPUTING MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 9 WORLD INDUSTRIAL AUTOMATION EMBEDDED COMPUTING MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 10 WORLD HEALTHCARE EMBEDDED COMPUTING MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 11 WORLD ENERGY SECTOR EMBEDDED COMPUTING MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 12 WORLD COMMUNICATION EMBEDDED COMPUTING MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 13 WORLD CONSUMER ELECTRONICS EMBEDDED COMPUTING MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 14 WORLD OTHER EMBEDDED COMPUTING MARKET REVENUE BY GEOGRAPHY, 2015-2022 (\$MILLION)

TABLE 15 NORTH AMERICA EMBEDDED REVENUE BY END USER, 2015-2022 (\$MILLION)

TABLE 16 NORTH AMERICA EMBEDDED REVENUE BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 17 EUROPE EMBEDDED REVENUE BY END USER, 2015-2022 (\$MILLION)

TABLE 18 EUROPE EMBEDDED REVENUE BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 19 ASIA-PACIFIC EMBEDDED REVENUE BY END USER, 2015-2022

(\$MILLION)

TABLE 20 ASIA-PACIFIC EMBEDDED REVENUE BY COUNTRY, 2015-2022

(\$MILLION)

TABLE 21 LAMEA EMBEDDED REVENUE BY END USER, 2015-2022 (\$MILLION)

TABLE 22 LAMEA EMBEDDED REVENUE BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 23 SNAPSHOT OF ATMEL CORPORATION

TABLE 24 SNAPSHOT OF MICROCHIP TECHNOLOGY INC.

TABLE 25 SNAPSHOT OF INTEL CORPORATION

TABLE 26 SNAPSHOT OF RENESAS ELECTRONICS CORPORATION

TABLE 27 SNAPSHOT OF FUJITSU LIMITED

TABLE 28 SNAPSHOT OF ARM HOLDINGS PLC.

TABLE 29 SNAPSHOT OF INTERNATIONAL BUSINESS MACHINE CORPORATION

TABLE 30 SNAPSHOT OF MICROSOFT CORPORATION

TABLE 31 SNAPSHOT OF QUALCOMM INCORPORATED

TABLE 32 SNAPSHOT OF TEXAS INSTRUMENTS INCORPORATED

List Of Figures

LIST OF FIGURES

FIG. 1 TOP IMPACTING FACTORS

FIG. 2 TOP WINNING STRATEGIES IN EMBEDDED COMPUTING MARKET
(PERCENTAGE COMPARISON) (2012-2015)

FIG. 3 TOP WINNING STRATEGIES IN EMBEDDED COMPUTING MARKET
(2012-2015)

FIG. 4 TOP INVESTMENT POCKETS

FIG. 5 VALUE CHAIN ANALYSIS

FIG. 6 PORTERS FIVE FORCES ANALYSIS

FIG. 7 MARKET SHARE ANALYSIS, 2015

FIG. 8 REVENUE OF ATMEL CORPORATION, 2012-2014 (\$MILLION)

FIG. 9 REVENUE OF ATMEL CORPORATION BY BUSINESS SEGMENTS, 2014 (%)

FIG. 10 REVENUE OF ATMEL CORPORATION BY GEOGRAPHY, 2014 (%)

FIG. 11 SWOT ANALYSIS OF ATMEL CORPORATION

FIG. 12 NET SALES OF MICROCHIP TECHNOLOGY INC., 2012-2015 (\$MILLION)

FIG. 13 NET SALES OF MICROCHIP TECHNOLOGY INC. BY BUSINESS
SEGMENTS, 2015 (%)

FIG. 14 NET SALES OF MICROCHIP TECHNOLOGY INC. BY GEOGRAPHY, 2015
(%)

FIG. 15 SWOT ANALYSIS OF MICROCHIP TECHNOLOGY INC.

FIG. 16 REVENUE OF INTEL CORPORATION, 2012-2015 (\$MILLION)

FIG. 17 REVENUE OF INTEL CORPORATION BY BUSINESS SEGMENT, 2015 (%)

FIG. 18 SWOT ANALYSIS OF INTEL CORPORATION

FIG. 19 NET SALES OF RENESAS ELECTRONICS CORPORATION, 2012-2015
(\$MILLION)

FIG. 20 NET SALES OF RENESAS ELECTRONICS CORPORATION BY BUSINESS
SEGMENTS, 2015 (%)

FIG. 21 NET SALES OF RENESAS ELECTRONICS CORPORATION BY
GEOGRAPHY, 2015 (%)

FIG. 22 SWOT ANALYSIS OF RENESAS ELECTRONICS CORPORATION

FIG. 23 REVENUE OF FUJITSU LIMITED, 2012-2014 (\$MILLION)

FIG. 24 REVENUE OF FUJITSU LIMITED BY BUSINESS SEGMENTS, 2014 (%)

FIG. 25 REVENUE OF FUJITSU LIMITED BY GEOGRAPHY, 2014 (%)

FIG. 26 SWOT ANALYSIS OF FUJITSU LIMITED

FIG. 27 REVENUE OF ARM HOLDINGS PLC., 2012-2015, (\$MILLION)

FIG. 28 REVENUE OF ARM HOLDINGS PLC. BY GEOGRAPHY, 2015 (%)

FIG. 29 SWOT ANALYSIS OF ARM HOLDINGS PLC.

FIG. 30 REVENUE OF INTERNATIONAL BUSINESS MACHINES CORPORATION, 2012-2015, (\$MILLION)

FIG. 31 REVENUE OF INTERNATIONAL BUSINESS MACHINES CORPORATION BY GEOGRAPHY, 2015 (%)

FIG. 32 REVENUE OF INTERNATIONAL BUSINESS MACHINES CORPORATION BY BUSINESS SEGMENTS, 2015 (%)

FIG. 33 REVENUE OF MICROSOFT CORPORATION, 2012-2015 (\$MILLION)

FIG. 34 REVENUE OF MICROSOFT CORPORATION BY BUSINESS SEGMENTS, 2015 (%)

FIG. 35 SWOT ANALYSIS OF MICROSOFT CORPORATION

FIG. 36 REVENUE OF QUALCOMM INCORPORATED, 2012-2014 (\$MILLION)

FIG. 37 REVENUE OF QUALCOMM INCORPORATED BY BUSINESS SEGMENTS, 2014 (%)

FIG. 38 REVENUE OF QUALCOMM INCORPORATED BY GEOGRAPHY, 2014 (%)

FIG. 39 SWOT ANALYSIS OF QUALCOMM INCORPORATED

FIG. 40 REVENUE OF TEXAS INSTRUMENTS INCORPORATED, 2012-2015 (\$MILLION)

FIG. 41 REVENUE OF TEXAS INSTRUMENTS INCORPORATED BY BUSINESS SEGMENTS, 2015 (%)

FIG. 42 REVENUE OF TEXAS INSTRUMENTS INCORPORATED BY GEOGRAPHY, 2015 (%)

FIG. 43 SWOT ANALYSIS OF TEXAS INSTRUMENTS INCORPORATED

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