

# Embedded Systems: Market Research Report

<https://marketpublishers.com/r/E5F26CF81F6EN.html>

Date: January 2015

Pages: 203

Price: US\$ 4,950.00 (Single User License)

ID: E5F26CF81F6EN

## Abstracts

This report analyzes the worldwide markets for Embedded Systems in US\$ Million by the following End-Use Segments: Computing, Telecommunications, Consumer Electronics, and Others. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, and Rest of World. Annual estimates and forecasts are provided for the period 2014 through 2020. Also, a seven-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs. The report profiles 57 companies including many key and niche players such as -

Altera Corporation

ARM Limited

Atmel Corporation

Axiomtek

Freescale Semiconductor, Inc.

## Contents

### I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definitions and Scope of Study

### II. EXECUTIVE SUMMARY

#### 1. INDUSTRY OVERVIEW

Embedded Systems: A Core Component of All Modern Electronic Systems

Major Applications for Embedded Systems by End-Use Sector: A Snapshot

**Table 1.** World Embedded Systems Market (2014): Percentage Breakdown of Revenues by Segment for Embedded Boards, Embedded IC, and Embedded Software (includes corresponding Graph/Chart)

Market Outlook

Developed Markets Remain Major Revenue Contributors for Embedded Systems

Developing Markets to Lend Traction to Market Growth

Competition

**Table 2.** Leading Players in the Global Embedded System Microcontrollers Market (2014): Percentage Breakdown of Dollar Sales for Atmel, Freescale Semiconductor, Infineon Technologies, Microchip Technologies, Renesas Electronics and Others (includes corresponding Graph/Chart)

**Table 3.** Leading Players in the Global Embedded MPU and ASSP Market (2014): Percentage Breakdown of Dollar Sales for Freescale Semiconductor, Intel and Others (includes corresponding Graph/Chart)

#### 2. MARKET TRENDS & DRIVERS

Multicore Processors to Help Expand Applications of Embedded Systems

Growing Preference for Open Source Platforms

System-on-Chip (SoCs) Find Increasing Applications in Embedded Systems

**Table 4.** Global SoCs Market by Product Type (2014): Percentage Breakdown of Dollar Sales for SoCs Based on Standard Cell, and SoCs Based on Embedded IP (includes corresponding Graph/Chart)

Developers Increasingly Focus on Designing Secure Embedded Systems

Growing Demand for Portable Computing Devices to Drive Growth

**Table 5.** World Mobile Computing Devices Market by Product Segment (2014): Percentage Breakdown of Dollar Sales for Notebook PC, PDAs, Smartphones, and Tablet PCs (includes corresponding Graph/Chart)

Rise of M2M Communication Spur Demand for Embedded M2M Solutions

**Table 6.** World Cellular Machine-to-Machine (M2M) Modules Market by Application Area (2014): Percentage Breakdown of Revenues for Automotive, Electronic Payment Systems, Fleet Management, Remote Monitoring & Control, Security, and Others (includes corresponding Graph/Chart)

“Internet of Things” to Open New Growth Avenues for Embedded Systems

Spurt in Consumer Electronics Sales Augurs Well for Embedded Systems Market Opportunity Indicators

**Table 7.** Global Consumer Electronics Market by Geographic Region/Country (2012 & 2015): Annual Revenue (in US\$ Billion) for the US, Canada, Europe, Asia-Pacific (including Japan), Middle East, and Latin America (includes corresponding Graph/Chart)

**Table 8.** Global Digital Cameras Market by Geographic Region (2012 & 2015): Annual Sales (in Thousand Units) for North America, Europe, Asia-Pacific (including Japan), and Rest of World (includes corresponding Graph/Chart)

**Table 9.** Global Home Audio Equipment Market by Geographic Region (2012 & 2015): Annual Sales (in Thousand Units) for North America, Europe, Asia-Pacific (including Japan), and Rest of World (includes corresponding Graph/Chart)

Proliferation of Automation Concept in Processing & Manufacturing Sectors to Drive Demand for Embedded Systems  
Key Statistical Data

**Table 10.** World Market for Industrial Automation by End-use Sector (2014): Percentage Breakdown of Investments for Automotive, Chemical, Food Processing, Oil & Gas, Packaging, Pharmaceuticals, Plastic Manufacturing, Power, Textile, and Others (includes corresponding Graph/Chart)

**Table 11.** World Market for Industrial Automation by Segment (2014): Percentage Breakdown of Investments for Factory Automation and Process Automation (includes corresponding Graph/Chart)

**Table 12.** Global Investments on Robot Technology by Geographic Region (2014): Percentage Breakdown for China, Japan, the US, Western Europe, and Others (includes corresponding Graph/Chart)

Widening Role of Process Control Equipment in Industrial Landscape Amuses Embedded Systems Vendors

**Table 13.** Global Control & Processing Equipment Market by Geographic Region/Country (2014): Percentage Breakdown of Dollar Sales for the US, Canada, Japan, Europe, Asia-Pacific, Middle East, and Latin America (includes corresponding Graph/Chart)

Growing Penetration of Robots Creates Parallel Demand for Embedded Systems

**Table 14.** Global Industrial Robotics Market by Geographic Region (2014 & 2020): Annual Robot Sales in Units for the US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Rest of World (includes corresponding Graph/Chart)

Smart Automobiles Drive Application Possibilities for Embedded Systems  
Factors Influencing Uptake of Automotive Infotainment Systems: Ranked in Order of Influence  
Key Automotive Infotainment Functions for Users: Ranked in Order of Influence  
Key Statistical Data

**Table 15.** Global Automotive Infotainment Devices Market by Operating System (2014 & 2018): Percentage Breakdown of Shipments (Value) for Linux, Microsoft, QNX, and Others (includes corresponding Graph/Chart)

Advances in Healthcare Boost Market Opportunities for Embedded Systems  
Urbanization to Offer Growth Opportunities  
Positive Trend in Building & Home Automation Bodes Well for the Market  
Increased Focus on Efficient Energy Management in Buildings: A Key Growth Driver  
Expanding Role of Electronic Control & Signaling in Railway Networks Offers High-Volume Opportunities  
Embedded Systems Market Sees Steady Growth in Outsourcing Trend

**Table 16.** World Market for Embedded Systems (2006 & 2014): Percentage Breakdown of Spending on Open Market/In-House and MEC/Outsourced Manufacturing Segments (includes corresponding Graph/Chart)

### 3. PRODUCT OVERVIEW

Embedded System – An Introduction  
Historical Overview  
Embedded Software Architecture Systems  
Architectures Featuring Simple Control Loop  
Interrupt Controlled Embedded Systems

Cooperative Multitasking Systems  
Preemptive Multitasking or Multithreading Systems

#### **4. PRODUCT INTRODUCTIONS/INNOVATIONS**

Mentor Graphics Unveils Mentor Embedded Multi-Platform Solution  
AMD to Unveil New AMD ARM 64bit Server Chips  
Azul Systems Launch Zulu Embedded  
DAVE Embedded Systems Launches BORA Xpress  
Axiomtek Unveils eBOX530-840-FL Embedded System  
Axiomtek Launches eBOX671-885-FL Industrial Embedded Vision System  
Axiomtek Rolls Out tBOX330-870-FL IEC60945 Certified Marine System  
Axiomtek Introduces eBOX626-841-FL Fanless Embedded Box System  
Axiomtek Unveils rBOX510-6COM Din-Rail Fanless Embedded PC  
Altera Unveils Non-Volatile MAX 10 FPGAs  
Altera and TSMC Develop New Arria10 FPGAs and SoCs  
Mentor Graphics Launches Newest Version of its Mentor Embedded Hypervisor Product  
Mentor Graphics Rolls Out Comprehensive Software Solution for Heterogeneous Multicore SoC Development  
IAR Systems Unveils Compatible IAR Embedded Workbench for ARM for Renesas Electronics' RZ/A1 RSK Development Suite  
Renesas Electronics Unveils 28nm Flash Memory IP for MCUs  
Infineon Technologies Introduces ARM-based Embedded Power Family  
Axiomtek Launches PC934-230-FL Fanless Embedded System  
Mentor Graphics Expands Embedded Linux Development Support for Freescale QorIQ Devices  
Renesas Electronics America Rolls Out RZ/A1 Group of ARM Cortex-A9 MPUs  
Microsoft Rolls Out Windows Embedded Compact 2013  
Infineon Technologies AG Launches DrBlade  
ARM Unveils Upgraded ARM Development Studio 5 (DS-5) Community Edition  
Oracle Launches Oracle Java Embedded Suite 7.  
Virtium Unveils New Range of StorFly SATA SSDs  
Symtvision Launches TraceAnalyzer 3. 2 and SymTA/S 3. 2 System Level Tool Suites for Embedded Real-time Systems  
Codethink Rolls Out Secret Volcano Release of Baserock Embedded Linux Version 1. 1 and Baserock. org Portal  
Imec Unveils Stretchable and Flexible Ultra-Thin Chip Packages

#### **5. RECENT INDUSTRY ACTIVITY**

Freescale to Merge with NXP  
Cypress Semiconductor Closes Merger with Spansion  
Altair Takes Over Visual Solutions  
Infineon Technologies to Acquire Minority Stake in Schweizer Electronic  
Mentor Graphics Takes Over XS Embedded  
Infineon Technologies Inks Agreement with Globalfoundries  
Intel Takes Over ProFUSION Embedded Systems  
Texas Instruments to Close Smartphone and Tablet Business to Fully Focus on Embedded Systems Division  
Microsemi Partners with Emcraft Systems  
ETAS Takes Over Esccrypt

## 6. FOCUS ON SELECT PLAYERS

Altera Corporation (USA)  
ARM Limited (UK)  
Atmel Corporation (USA)  
Axiomtek (Taiwan)  
Freescale Semiconductor, Inc. (USA)  
Fujitsu Limited (Japan)  
HCL Technologies Limited (India)  
Infineon Technologies AG (Germany)  
Infosys Limited (India)  
Intel Corporation (USA)  
Kontron AG (Germany)  
Mentor Graphics Corporation (USA)  
Microchip Technology Inc. (USA)  
Microsoft Corporation (USA)  
QNX Software Systems Ltd. (Canada)  
Renesas Electronics Corporation (Japan)  
VIA Technologies, Inc. (Taiwan)  
Zilog, Inc. (USA)

## 7. GLOBAL MARKET PERSPECTIVE

**Table 17.** World Recent Past, Current and Future Analysis for Embedded Systems by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and



Rest of World Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 18.** World Historic Review for Embedded Systems by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

**Table 19.** World 14-Year Perspective for Embedded Systems by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (excluding Japan), and Rest of World Markets for Years 2007, 2015, and 2020 (includes corresponding Graph/Chart)

**Table 20.** World Recent Past, Current and Future Analysis for Embedded Systems by End-Use Sector - Computing, Telecommunications, Consumer Electronics, and Other Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 21.** World Historic Review for Embedded Systems by End-Use Sector - Computing, Telecommunications, Consumer Electronics, and Other Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

**Table 22.** World 14-Year Perspective for Embedded Systems by End-Use Sector - Percentage Breakdown of Dollar Sales for Computing, Telecommunications, Consumer Electronics, and Other Markets for Years 2007, 2015, and 2020 (includes corresponding Graph/Chart)

### **III. MARKET**

#### **1. THE UNITED STATES**

##### **A. Market Analysis**

###### **Outlook**

Embedded Systems Market Sees Significant Opportunities in Short to Medium-Term Priority for Automation in Processing & Manufacturing Sectors Fuels Demand for Embedded Systems

Upward Trajectory in Building & Home Automation Amuses Embedded Systems Market Growing Consumer Electronics Sales Augur Well for Market Growth



Product Launches  
Strategic Corporate Developments  
Select Players  
B. Market Analytics

**Table 23.** US Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 24.** US Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

## **2. CANADA**

A. Market Analysis  
Outlook  
QNX Software Systems Ltd. – A Major Canadian Player  
B. Market Analytics

**Table 25.** Canadian Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 26.** Canadian Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

## **3. JAPAN**

A. Market Analysis  
Outlook  
Established Electronics Manufacturing Sector Helps Market Maintain Momentum  
Consumption of Embedded Systems Remains High in Sprawling Robotics Sector  
Select Players  
B. Market Analytics

**Table 27.** Japanese Recent Past, Current and Future Analysis for Embedded Systems

Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 28.** Japanese Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

## 4. EUROPE

Market Analysis

**Table 29.** European Recent Past, Current and Future Analysis for Embedded Systems by Region/Country - France, Germany, Italy, UK, Spain, Russia, Netherlands, Sweden, and Rest of Europe Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 30.** European Historic Review for Embedded Systems by Region/Country - France, Germany, Italy, UK, Spain, Russia, Netherlands, Sweden, and Rest of Europe Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

**Table 31.** European 14-Year Perspective for Embedded Systems by Region/Country - Percentage Breakdown of Dollar Sales for France, Germany, Italy, UK, Spain, Russia, Netherlands, Sweden, and Rest of Europe Markets for Years 2007, 2015, and 2020 (includes corresponding Graph/Chart)

### 4A. FRANCE

Market Analysis

**Table 32.** French Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 33.** French Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

### 4B. GERMANY

#### A. Market Analysis

Outlook

Product Launches

Strategic Corporate Developments

Select Players

#### B. Market Analytics

**Table 34.** German Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 35.** German Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

### 4C. ITALY

#### A. Market Analysis

Product Launch

#### B. Market Analytics

**Table 36.** Italian Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 37.** Italian Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

### 4D. THE UNITED KINGDOM

#### A. Market Analysis

Outlook

Product Launches

ARM Limited – A Major Uk-Based Player

#### B. Market Analytics

**Table 38.** UK Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 39.** UK Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

#### **4E. SPAIN**

Market Analysis

**Table 40.** Spanish Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 41.** Spanish Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

#### **4F. RUSSIA**

Market Analysis

**Table 42.** Russian Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 43.** Russian Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

#### **4G. THE NETHERLANDS**

Market Analysis

**Table 44.** Dutch Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 45.** Dutch Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

#### **4H. SWEDEN**

Market Analysis

**Table 46.** Swedish Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 47.** Swedish Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

#### **4I. REST OF EUROPE**

A. Market Analysis

Outlook

Product Launch

B. Market Analytics

**Table 48.** Rest of Europe Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 49.** Rest of Europe Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

#### **5. ASIA-PACIFIC**

Market Analysis

**Table 50.** Asia-Pacific Recent Past, Current and Future Analysis for Embedded Systems by Region/Country - China and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 51.** Asia-Pacific Historic Review for Embedded Systems by Region/Country - China and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

**Table 52.** Asia-Pacific 14-Year Perspective for Embedded Systems by Region/Country - Percentage Breakdown of Dollar Sales for China and Rest of Asia-Pacific Markets for Years 2007, 2015, and 2020 (includes corresponding Graph/Chart)

## **5A. CHINA**

### A. Market Analysis

#### Market Overview

Growing Focus on Industrial Automation Bodes Well for Market Growth

Expansive Consumer Electronics Market: A Strong Business Case for Embedded Systems

### B. Market Analytics

**Table 53.** Chinese Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 54.** Chinese Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

## **5B. REST OF ASIA-PACIFIC**

### A. Market Analysis

#### Outlook

India: A Major Market for Embedded Systems

Product Launches

Select Players

### B. Market Analytics

**Table 55.** Rest of Asia-Pacific Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 56.** Rest of Asia-Pacific Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

## **6. REST OF WORLD**

A. Market Analysis

Outlook

Corporate Development

B. Market Analytics

**Table 57.** Rest of World Recent Past, Current and Future Analysis for Embedded Systems Market with Annual Sales in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

**Table 58.** Rest of World Historic Review for Embedded Systems Market with Annual Sales in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)III-52

## **IV. COMPETITIVE LANDSCAPE**

Total Companies Profiled: 57 (including Divisions/Subsidiaries - 58)

The United States (26)

Canada (3)

Japan (2)

Europe (17)

Germany (8)

The United Kingdom (4)

Italy (1)

Rest of Europe (4)

Asia-Pacific (Excluding Japan) (9)

Middle East (1)



## I would like to order

Product name: Embedded Systems: Market Research Report

Product link: <https://marketpublishers.com/r/E5F26CF81F6EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E5F26CF81F6EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970