

Embedded Internet of Things (IoT) Ecosystem: Next Gen Embedded System Hardware, Software, Tools, and Operating Systems 2016 - 2021

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Abstracts

Overview:

The Internet of Things (IoT) demands a different set of microprocessors, drivers, peripherals, batteries and operating systems than conventional Embedded System used in general purpose computing systems. Conventional Embedded Systems are not competent to deliver what the IoT is expecting from an embedded device networked in IoT and it brings great challenges to develop or transform contemporary embedded system into an IoT enabled smart embedded system.

This research provides analysis of the products that will be developed to support IoT, changes in traditional RTOS required to match performance with IoT, changes in hardware required to match needs of IoT, types of peripherals, and emerging tools to support processing of embedded systems in IoT.

The report provides five year forecast for Embedded Systems in IoT for the period of 2016 - 2021. It provides regional segmentation by industry for embedded systems and components. All purchases of Mind Commerce reports includes time with an expert analyst who will help you link key findings in the report to the business issues you're addressing. This needs to be used within three months of purchasing the report.

Key Findings:

The overall market embedded systems will grow with a CAGR of 19.4% to reach \$262B by 2021

The complexity, time to market, and development costs for IoT devices will play a crucial role in market share

The market for Real-time Operating Systems (RTOS) in IoT will grow with a CAGR of 26.4% to reach \$58 billion by 2021

Next generation RTOS (such as RIOT, Wind River, LifeOS and Contiki) considered the requirements for future IoT networks

The MPU/MCU market in IoT is expected to reach \$134B (about 51% of the entire embedded system component share) by 2021

Smart embedded systems will require changing contemporary embedded system design and architecture to suit real-time operations

Target Audience:

Electronics manufacturers

Wireless service providers

IoT infrastructure providers

Wireless device manufacturers

Wireless infrastructure providers

Embedded H/W, S/W, and OS providers

Contents

1 INTRODUCTION

- 1.1 Scope of Report
- 1.2 Intended Audience
- 1.3 Companies in Report

2 EXECUTIVE SUMMARY

3 OVERVIEW

- 3.1 Introduction to IoT
 - 3.1.1 Consumer IoT
 - 3.1.2 Industrial IoT (IIoT)
- 3.2 Embedded Systems in IoT
- 3.3 Key Embedded Devices used in IoT
 - 3.3.1.1 Short Range Low Power Radio Devices
 - 3.3.2 Network Devices: Gateway/Hub/Router/Bridges
 - 3.3.3 Sensors and Actuators
 - 3.3.4 Edge Devices
 - 3.3.5 Wearables
- 3.4 Role of the Embedded Systems in IoT
- 3.5 Real-time vs. Standard Embedded Systems
- 3.6 Working Principal of the Embedded Systems in IoT
- 3.7 Examples of Connected Embedded Devices in IoT
- 3.8 Global Markets for Embedded Systems

4 EMBEDDED SYSTEM TECHNOLOGY AND DEVELOPMENTS

- 4.1 Embedded Devices and IoT Infrastructure Architecture
- 4.2 Key Technology Developments in Embedded System for IoT
- 4.3 Core Embedded Systems Infrastructure
 - 4.3.1 Microprocessor/Microcontroller
 - 4.3.1.1 Reduced Instruction Set Computing (RISC) Chips
 - 4.3.1.2 System on Chip (SoC) (ASIC/FPGA)
 - 4.3.2 Embedded Software
 - 4.3.3 Next Generation Real Time Operating Systems (RTOS)
 - 4.3.3.1 Key Next Generation RTOS Features

4.3.3.1.1 Scalability

4.3.3.1.2 Modularity

4.3.3.1.3 Connectivity

4.3.3.1.4 Reliability

4.3.4 Embedded System Software Design Tools (Debuggers, Compilers and Assemblers)

4.3.5 Peripherals

5 GLOBAL MARKET FOR EMBEDDED SYSTEMS IN IOT 2016 - 2021

5.1 The \$1.6 Trillion IoT Business

5.1.1 Markets for IoT 2016 - 2021

5.2 Markets for Embedded Systems 2016 - 2021

5.2.1 Markets for Hardware and Software Components in Embedded Systems 2016 - 2021

5.2.2 Market for Microcontrollers and Other Hardware Components 2016 - 2021

5.2.3 Markets for Software Components in Embedded Systems 2016 - 2021

5.2.4 Regional Markets for Embedded Systems 2016 - 2021

5.2.5 Markets for Embedded Systems in North America 2016 - 2021

5.2.6 Markets for Embedded Systems in EMEA 2016 - 2021

5.2.7 Markets for Embedded Systems in APAC 2016 - 2021

5.2.8 Markets for Embedded Systems in CALA 2016 - 2021

5.2.9 Markets for Embedded Systems by Industry 2016 - 2021

6 EMBEDDED SYSTEMS IN IOT INDUSTRY ANALYSIS

6.1 Next Generation RTOS to Drive Embedded Expansion in IoT

6.2 Next Generation Chips in Development to support IoT Needs

6.3 Focus to be on Small Devices

6.4 Time Savings for Go to Market to Drive Demand for COTS

6.5 Embedded SIM (eSIM)

7 EMBEDDED SYSTEMS IN IOT VENDOR LANDSCAPE

7.1 Hardware Vendors

7.1.1 ARM Holdings

7.1.2 Cisco System Inc.

7.1.2.1 Cisco Industrial Networks

7.1.2.2 Cisco Embedded Networks

- 7.1.3 Echelon Corporation
 - 7.1.3.1 Echelon's IzoT platform
- 7.1.4 GreenPeak
- 7.1.5 Intel Corporation
- 7.1.6 Microchip Technology Inc.
- 7.1.7 Micron Technology Inc.
- 7.1.8 MediaTek Inc.
- 7.1.9 Qualcomm Atheros Inc.
- 7.1.10 Renesas Electronics Corporation
- 7.1.11 STMicroelectronics
- 7.1.12 Samsung Developers
- 7.1.13 Texas Instruments
- 7.2 Software Vendors
 - 7.2.1 Contiki
 - 7.2.2 Lynx Software Technologies, Inc.
 - 7.2.3 Oregan Networks Ltd.
 - 7.2.4 Wind River
 - 7.2.4.1 VxWorks 7 for IoT
- 7.3 Other Platforms/ Alliances/Peripherals
 - 7.3.1 Digital Living Network Alliance (DLNA)
 - 7.3.2 Insteon
 - 7.3.3 GE Software
 - 7.3.3.1 GE Predicitvity Solution
 - 7.3.3.2 GE Predix Platform
 - 7.3.4 Marvell
 - 7.3.5 Nest Labs.
 - 7.3.6 Netgear
 - 7.3.7 Netgem
 - 7.3.8 Object Management Group (OMG)
 - 7.3.8.1 Unified Component Model for Distributed, Real-Time Embedded Systems (UCM)
 - 7.3.9 Technicolor
 - 7.3.10 ZigBee Alliance
 - 7.3.11 Z-Wave Alliance

Figures

FIGURES

Figure 1: Mesh Networks

Figure 2: Embedded Devices and IoT Infrastructure Architecture

Figure 3: Core Embedded System Architecture

Figure 4: Global IoT Market 2016 - 2021

Figure 5: Markets for Embedded Systems in IoT 2016 - 2021

Figure 6: Markets for Embedded Systems in IoT by Products: 2016 - 2021

Figure 7: Regional Markets for Embedded Systems in IoT 2016 - 2021

Figure 8: Embedded Systems in IoT by Industry 2016 - 2021

Figure 9: Anatomy of the IzoT Platform

Tables

TABLES

TABLE 1: Comparison between Standard and Real-time Embedded Systems

TABLE 2: Leading Microprocessors used in Embedded Systems

TABLE 3: Leading Proprietary RTOS used in Embedded Systems

TABLE 4: Global IoT Markets 2016 - 2021

TABLE 5: Markets for Embedded Systems in IoT 2016 - 2021

TABLE 6: Markets for Embedded Systems Components: 2016 - 2021

TABLE 7: Regional Markets for MCU/MPU in Embedded Systems for IoT 2016 - 2021

TABLE 8: Regional Markets for Memory in Embedded Systems for IoT 2016 - 2021

TABLE 9: Regional Markets for Peripherals in Embedded Systems for IoT 2016 - 2021

TABLE 10: Regional Markets for RTOS in Embedded Systems for IoT 2016 - 2021

TABLE 11: Regional Markets for Embedded Software in IoT 2016 - 2021

TABLE 12: Regional Markets for Tools in Embedded Systems for IoT 2016 - 2021

TABLE 13: Regional Markets for Embedded Systems in IoT 2016 - 2021

TABLE 14: NA Market for Embedded Systems in IoT by Category 2016 - 2021

TABLE 15: EMEA Market for Embedded Systems in IoT by Category 2016 - 2021

TABLE 16: APAC Market for Embedded Systems in IoT by Category 2016 - 2021

TABLE 17: CALA Market for Embedded systems in IoT by Category 2016 - 2021

TABLE 18: Embedded Systems in IoT by Industry 2016 - 2021

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