

Embedded Systems Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Hardware , Software), By Functionality (Real-Time Embedded Systems, Standalone Embedded Systems, Networked Embedded Systems, and Mobile Embedded Systems), By Application (Automotive, Telecommunication, Healthcare, Industrial, Consumer Electronics, and Others), By Region, By Competition, 2019-2029F

<https://marketpublishers.com/r/E4AF48DA0ACDEN.html>

Date: June 2024

Pages: 180

Price: US\$ 4,900.00 (Single User License)

ID: E4AF48DA0ACDEN

Abstracts

Global Embedded Systems Market was valued at USD 100.45 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 5.41% through 2029. The Embedded Systems market encompasses a wide range of specialized computing systems designed to perform specific functions within larger electronic devices or systems. These systems typically consist of hardware components, such as microcontrollers or microprocessors, and software that is tailored to meet the requirements of the intended application. Embedded systems are commonly found in various industries, including automotive, aerospace, consumer electronics, healthcare, and industrial automation, where they play critical roles in controlling, monitoring, and managing complex processes and devices.

Key Market Drivers

Technological Advancements:

Technological advancements serve as a primary driver propelling the growth of

embedded systems. As the capabilities of microprocessors, sensors, and connectivity technologies continue to evolve, embedded systems become increasingly powerful, efficient, and versatile. Advancements such as the development of low-power processors, high-speed communication protocols, and miniaturized sensors enable the integration of complex functionalities into embedded systems while minimizing power consumption and footprint. These technological innovations expand the potential applications of embedded systems across various industries, from automotive and healthcare to industrial automation and smart infrastructure. Moreover, advancements in software development tools and frameworks empower developers to create sophisticated embedded software solutions, further driving the adoption of embedded systems in both existing and emerging markets.

Proliferation of Internet of Things (IoT):

The proliferation of Internet of Things (IoT) devices and applications is a significant market driver for embedded systems. IoT solutions rely heavily on embedded systems to collect, process, and transmit data between interconnected devices and the cloud. Embedded systems serve as the backbone of IoT ecosystems, enabling real-time monitoring, control, and automation across diverse environments and industries. As the adoption of IoT technologies continues to grow, driven by the need for improved efficiency, productivity, and connectivity, the demand for embedded systems is expected to soar. Industries such as smart home automation, industrial IoT (IIoT), smart cities, agriculture, and healthcare are particularly ripe for the deployment of embedded systems to enable innovative IoT solutions that enhance operational efficiency, optimize resource utilization, and improve decision-making processes.

Increasing Complexity of Electronic Systems:

The increasing complexity of electronic systems is driving the demand for more sophisticated embedded solutions. Modern electronic devices and systems require embedded systems that can handle multiple functions, support diverse interfaces, and seamlessly integrate with other components. From automotive infotainment systems and autonomous vehicles to medical devices and consumer electronics, embedded systems play a critical role in enabling the advanced functionalities demanded by today's tech-savvy consumers and businesses. Moreover, the trend towards system-on-chip (SoC) and system-on-module (SoM) architectures further underscores the need for highly integrated embedded solutions that combine processing, memory, and connectivity in a compact and cost-effective package. As electronic systems become increasingly complex, the demand for customizable, scalable, and efficient embedded

systems is expected to rise, driving innovation and market growth in the embedded systems industry.

Demand for Edge Computing Solutions:

The growing demand for edge computing solutions is driving the adoption of embedded systems in edge devices and gateways. Edge computing, which involves processing data closer to its source rather than in centralized cloud servers, offers several advantages, including reduced latency, improved security, and bandwidth optimization. Embedded systems play a crucial role in enabling edge computing by providing the computational power and intelligence needed to analyze and respond to data in real time at the network edge. Industries such as manufacturing, retail, transportation, and logistics are increasingly deploying edge computing solutions powered by embedded systems to support mission-critical applications such as predictive maintenance, real-time analytics, and autonomous operations. As the adoption of edge computing continues to accelerate, driven by the proliferation of IoT devices and the need for low-latency, high-performance computing solutions, the demand for embedded systems in edge devices and gateways is poised for significant growth, driving innovation and market expansion in the embedded systems industry.

Key Market Challenges

Security and Data Privacy Concerns

One of the significant challenges facing the Global Embedded Systems Market is the growing concern over security and data privacy. As embedded systems become more integral to our daily lives and critical infrastructure, ensuring the protection of sensitive data and maintaining the privacy of users has become paramount. Embedded systems are increasingly connected to networks and the internet, making them susceptible to cyberattacks. Hackers target vulnerabilities in these systems to gain unauthorized access, disrupt operations, or steal sensitive data. The challenge lies in developing robust security measures to defend against evolving cyber threats.

Governments worldwide are enacting stringent data privacy regulations, such as the European Union's General Data Protection Regulation (GDPR) and the California Consumer Privacy Act (CCPA). Compliance with these regulations is a complex and ongoing challenge, as embedded systems must ensure that user data is collected, processed, and stored in a manner that respects individual privacy rights. Building security into embedded systems is not a one-time task; it's an ongoing process.

Manufacturers and developers must continuously update and patch vulnerabilities to stay ahead of potential threats. Achieving this without compromising system performance or increasing costs is a considerable challenge.

Power Efficiency and Heat Management

Embedded systems are often used in devices and applications where power efficiency and heat management are critical. The challenge in this aspect is to strike a balance between providing sufficient processing power while minimizing power consumption and managing heat generation.

As consumers and industries seek devices with longer battery life and reduced energy consumption, embedded systems must be designed with energy-efficient components and algorithms. This challenge involves optimizing every aspect of the system to reduce power consumption without sacrificing performance.

Heat generation is an inevitable consequence of electronic operations. Overheating can degrade the performance and lifespan of embedded systems. Designing effective heat dissipation mechanisms that do not compromise the device's form factor or acoustic properties is a challenging task.

Many embedded systems are used in applications requiring real-time data processing, such as autonomous vehicles and robotics. Meeting real-time processing requirements while managing power consumption is a delicate balance that developers must address.

Segmental Insights

Component Insights

Hardware segment held the largest Market share in 2023. The hardware segment plays a pivotal role in driving the growth and innovation of the embedded systems market. As embedded systems become increasingly ubiquitous across diverse industries and applications, the demand for hardware components that offer enhanced performance, scalability, and integration capabilities continues to rise. Several key factors serve as market drivers for embedded systems in the hardware segment, shaping the trajectory of the industry and fueling its expansion.

One of the primary market drivers for embedded systems in hardware is the continuous advancement of semiconductor technologies. The relentless pace of innovation in

microprocessor architectures, system-on-chip (SoC) designs, and integrated circuit (IC) fabrication processes enables the development of hardware components that are more powerful, efficient, and feature-rich than ever before. Manufacturers are constantly pushing the boundaries of semiconductor technology, exploring new materials, structures, and manufacturing techniques to deliver processors, memory chips, and other hardware components that offer higher processing speeds, lower power consumption, and greater integration capabilities. These advancements in semiconductor technologies empower embedded systems to handle increasingly complex tasks, support diverse applications, and deliver superior performance in a wide range of environments, from automotive and industrial automation to consumer electronics and healthcare.

Another significant market driver for embedded systems in hardware is the growing demand for customization and specialization. As industries and applications become more diverse and specialized, there is a corresponding need for embedded hardware solutions that can be tailored to specific requirements and use cases. Manufacturers are increasingly offering customizable hardware platforms, development kits, and reference designs that enable developers to design and deploy embedded systems that meet their unique needs and performance criteria. Whether it's optimizing for power efficiency, enhancing connectivity, or integrating specialized sensors and peripherals, customizable embedded hardware solutions provide developers with the flexibility and scalability required to address a wide range of applications and markets. This trend towards customization and specialization in embedded hardware is driven by the need for tailored solutions that deliver optimal performance, reliability, and cost-effectiveness in today's increasingly competitive and dynamic market landscape.

The integration of connectivity features is also a significant market driver for embedded systems in hardware. With the proliferation of IoT devices and the rise of connected systems and applications, there is a growing demand for embedded hardware components that offer seamless connectivity to local and wide-area networks. Manufacturers are incorporating a wide range of wireless communication protocols, such as Wi-Fi, Bluetooth, Zigbee, and cellular, into embedded hardware platforms to enable IoT connectivity, remote monitoring, and control capabilities. Additionally, the integration of Ethernet, CAN bus, and other wired communication interfaces facilitates seamless integration with existing infrastructure and industrial systems. Embedded hardware solutions with built-in connectivity features enable developers to create IoT-enabled devices and systems that can communicate, collaborate, and exchange data with other devices and cloud-based services, unlocking new possibilities for innovation and value creation in the IoT ecosystem.

Key Market Trends

Increasing Adoption of Internet of Things (IoT) Devices

The global Embedded Systems market is witnessing a significant trend towards the increasing adoption of Internet of Things (IoT) devices across various industries. IoT devices, which are embedded with sensors, processors, and connectivity capabilities, enable seamless communication and data exchange between physical objects and digital systems. These devices are revolutionizing industries such as healthcare, manufacturing, transportation, and agriculture by providing real-time insights, optimizing operations, and enhancing efficiency. As businesses recognize the potential of IoT technologies to drive innovation and gain a competitive edge, the demand for embedded systems that power these devices continues to rise. Manufacturers of embedded systems are responding to this trend by developing solutions tailored to the unique requirements of IoT applications, including low-power consumption, connectivity protocols, and data security features.

Growth of Edge Computing

Another notable trend in the global Embedded Systems market is the proliferation of edge computing solutions. Edge computing involves processing and analyzing data closer to its source, typically at the network edge or within IoT devices themselves, rather than relying solely on centralized cloud infrastructure. This approach offers several advantages, including reduced latency, bandwidth optimization, improved data privacy, and enhanced reliability in mission-critical applications. As industries increasingly rely on real-time data insights for decision-making and automation, the demand for embedded systems capable of supporting edge computing workloads is on the rise. Embedded systems vendors are developing edge computing solutions that integrate powerful processors, robust security features, and efficient data processing capabilities to meet the evolving needs of edge computing applications across various sectors.

Regional Insights

Asia Pacific region held the largest Market share in 2023. The Asia Pacific region is witnessing rapid growth and innovation in the embedded systems market, driven by several key factors that underscore its increasing importance in the region's technology landscape. As one of the fastest-growing and most dynamic regions in the world, Asia

Pacific offers immense opportunities for embedded systems manufacturers, developers, and suppliers to capitalize on emerging trends, technological advancements, and evolving market dynamics. Several market drivers are shaping the growth and expansion of the embedded systems market in the Asia Pacific region, driving innovation, fostering collaboration, and fueling market demand across diverse industries and applications.

One of the primary market drivers for embedded systems in the Asia Pacific region is the region's rapid economic growth and industrialization. Countries such as China, India, Japan, South Korea, and Taiwan are experiencing robust economic expansion, driven by investments in infrastructure, manufacturing, and technology. As industries modernize and adopt digital technologies to enhance productivity, efficiency, and competitiveness, there is a growing demand for embedded systems that enable automation, connectivity, and intelligence. Industries such as automotive, manufacturing, healthcare, and consumer electronics are increasingly deploying embedded systems to streamline operations, improve quality, and innovate products and services, driving market growth and expansion in the region.

The proliferation of Internet of Things (IoT) and smart technologies is another significant market driver for embedded systems in the Asia Pacific region. With the rapid adoption of connected devices, sensors, and actuators across various industries and sectors, there is a growing need for embedded systems that can collect, process, and analyze data in real time, enabling smart decision-making and automation. Industries such as smart cities, agriculture, logistics, and retail are leveraging embedded systems to create innovative IoT solutions that enhance efficiency, sustainability, and quality of life. Moreover, governments and enterprises are investing in IoT infrastructure and initiatives to drive digital transformation and address pressing challenges such as urbanization, environmental sustainability, and resource management, further fueling market demand for embedded systems in the region.

The Asia Pacific region is home to some of the largest and fastest-growing consumer electronics markets in the world, driving significant demand for embedded systems in applications such as smartphones, tablets, wearables, and home appliances. With a burgeoning middle class, rising disposable incomes, and increasing digitalization, consumers in the region are increasingly adopting and upgrading electronic devices, spurring demand for embedded systems that enable advanced features, connectivity, and user experiences. Moreover, the proliferation of e-commerce platforms and digital payment systems is driving the adoption of embedded systems in fintech and digital commerce applications, further expanding market opportunities in the consumer

electronics sector.

Key Market Players

Taiwan Semiconductor Manufacturing Company Limited

Samsung Electronics Co., Ltd.

Intel Corporation

GlobalFoundries Inc.

United Microelectronics Corporation

SK hynix Inc.

Micron Technology, Inc.

Semiconductor Manufacturing International Corporation

STMicroelectronics International N.V.

NXP Semiconductors N.V.

Report Scope:

In this report, the Global Embedded Systems Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Embedded Systems Market, By Component:

Hardware

Software

Embedded Systems Market, By Functionality:

Real-Time Embedded Systems

Standalone Embedded Systems

Networked Embedded Systems

Mobile Embedded Systems

Embedded Systems Market, By Application:

Automotive

Telecommunication

Healthcare

Industrial

Consumer Electronics

Others

Embedded Systems Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Embedded Systems Market.

Available Customizations:

Global Embedded Systems market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL EMBEDDED SYSTEMS MARKET OVERVIEW

6. GLOBAL EMBEDDED SYSTEMS MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Component (Hardware, Software)
 - 6.2.2. By Functionality (Real-Time Embedded Systems, Standalone Embedded

Systems, Networked Embedded Systems, and Mobile Embedded Systems)

6.2.3. By Application (Automotive, Telecommunication, Healthcare, Industrial, Consumer Electronics, and Others)

6.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

6.3. By Company (2023)

6.4. Market Map

7. NORTH AMERICA EMBEDDED SYSTEMS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Component

7.2.2. By Functionality

7.2.3. By Application

7.2.4. By Country

7.3. North America: Country Analysis

7.3.1. United States Embedded Systems Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Component

7.3.1.2.2. By Functionality

7.3.1.2.3. By Application

7.3.2. Canada Embedded Systems Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Component

7.3.2.2.2. By Functionality

7.3.2.2.3. By Application

7.3.3. Mexico Embedded Systems Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Component

7.3.3.2.2. By Functionality

7.3.3.2.3. By Application

8. EUROPE EMBEDDED SYSTEMS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Functionality

8.2.3. By Application

8.2.4. By Country

8.3. Europe: Country Analysis

8.3.1. Germany Embedded Systems Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Component

8.3.1.2.2. By Functionality

8.3.1.2.3. By Application

8.3.2. France Embedded Systems Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Component

8.3.2.2.2. By Functionality

8.3.2.2.3. By Application

8.3.3. United Kingdom Embedded Systems Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Component

8.3.3.2.2. By Functionality

8.3.3.2.3. By Application

8.3.4. Italy Embedded Systems Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Component

8.3.4.2.2. By Functionality

8.3.4.2.3. By Application

8.3.5. Spain Embedded Systems Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Component

8.3.5.2.2. By Functionality

8.3.5.2.3. By Application

8.3.6. Belgium Embedded Systems Market Outlook

8.3.6.1. Market Size & Forecast

8.3.6.1.1. By Value

8.3.6.2. Market Share & Forecast

8.3.6.2.1. By Component

8.3.6.2.2. By Functionality

8.3.6.2.3. By Application

9. SOUTH AMERICA EMBEDDED SYSTEMS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Component

9.2.2. By Functionality

9.2.3. By Application

9.2.4. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Embedded Systems Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Component

9.3.1.2.2. By Functionality

9.3.1.2.3. By Application

9.3.2. Colombia Embedded Systems Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Component

9.3.2.2.2. By Functionality

9.3.2.2.3. By Application

9.3.3. Argentina Embedded Systems Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Component

9.3.3.2.2. By Functionality

9.3.3.2.3. By Application

9.3.4. Chile Embedded Systems Market Outlook

9.3.4.1. Market Size & Forecast

9.3.4.1.1. By Value

9.3.4.2. Market Share & Forecast

9.3.4.2.1. By Component

9.3.4.2.2. By Functionality

9.3.4.2.3. By Application

9.3.5. Peru Embedded Systems Market Outlook

9.3.5.1. Market Size & Forecast

9.3.5.1.1. By Value

9.3.5.2. Market Share & Forecast

9.3.5.2.1. By Component

9.3.5.2.2. By Functionality

9.3.5.2.3. By Application

10. MIDDLE EAST & AFRICA EMBEDDED SYSTEMS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Component

10.2.2. By Functionality

10.2.3. By Application

10.2.4. By Country

10.3. Middle East & Africa: Country Analysis

10.3.1. Saudi Arabia Embedded Systems Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Component

10.3.1.2.2. By Functionality

10.3.1.2.3. By Application

- 10.3.2. UAE Embedded Systems Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Component
 - 10.3.2.2.2. By Functionality
 - 10.3.2.2.3. By Application
- 10.3.3. South Africa Embedded Systems Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Component
 - 10.3.3.2.2. By Functionality
 - 10.3.3.2.3. By Application
- 10.3.4. Turkey Embedded Systems Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Component
 - 10.3.4.2.2. By Functionality
 - 10.3.4.2.3. By Application
- 10.3.5. Israel Embedded Systems Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Component
 - 10.3.5.2.2. By Functionality
 - 10.3.5.2.3. By Application

11. ASIA PACIFIC EMBEDDED SYSTEMS MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Component
 - 11.2.2. By Functionality
 - 11.2.3. By Application
 - 11.2.4. By Country
- 11.3. Asia-Pacific: Country Analysis

- 11.3.1. China Embedded Systems Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Component
 - 11.3.1.2.2. By Functionality
 - 11.3.1.2.3. By Application
- 11.3.2. India Embedded Systems Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Component
 - 11.3.2.2.2. By Functionality
 - 11.3.2.2.3. By Application
- 11.3.3. Japan Embedded Systems Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Component
 - 11.3.3.2.2. By Functionality
 - 11.3.3.2.3. By Application
- 11.3.4. South Korea Embedded Systems Market Outlook
 - 11.3.4.1. Market Size & Forecast
 - 11.3.4.1.1. By Value
 - 11.3.4.2. Market Share & Forecast
 - 11.3.4.2.1. By Component
 - 11.3.4.2.2. By Functionality
 - 11.3.4.2.3. By Application
- 11.3.5. Australia Embedded Systems Market Outlook
 - 11.3.5.1. Market Size & Forecast
 - 11.3.5.1.1. By Value
 - 11.3.5.2. Market Share & Forecast
 - 11.3.5.2.1. By Component
 - 11.3.5.2.2. By Functionality
 - 11.3.5.2.3. By Application
- 11.3.6. Indonesia Embedded Systems Market Outlook
 - 11.3.6.1. Market Size & Forecast
 - 11.3.6.1.1. By Value
 - 11.3.6.2. Market Share & Forecast

- 11.3.6.2.1. By Component
- 11.3.6.2.2. By Functionality
- 11.3.6.2.3. By Application
- 11.3.7. Vietnam Embedded Systems Market Outlook
 - 11.3.7.1. Market Size & Forecast
 - 11.3.7.1.1. By Value
 - 11.3.7.2. Market Share & Forecast
 - 11.3.7.2.1. By Component
 - 11.3.7.2.2. By Functionality
 - 11.3.7.2.3. By Application

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPANY PROFILES

- 14.1. Taiwan Semiconductor Manufacturing Company Limited
 - 14.1.1. Business Overview
 - 14.1.2. Key Revenue and Financials
 - 14.1.3. Recent Developments
 - 14.1.4. Key Personnel/Key Contact Person
 - 14.1.5. Key Product/Services Offered
- 14.2. Samsung Electronics Co., Ltd.
 - 14.2.1. Business Overview
 - 14.2.2. Key Revenue and Financials
 - 14.2.3. Recent Developments
 - 14.2.4. Key Personnel/Key Contact Person
 - 14.2.5. Key Product/Services Offered
- 14.3. Intel Corporation
 - 14.3.1. Business Overview
 - 14.3.2. Key Revenue and Financials
 - 14.3.3. Recent Developments
 - 14.3.4. Key Personnel/Key Contact Person
 - 14.3.5. Key Product/Services Offered
- 14.4. GlobalFoundries Inc.

- 14.4.1. Business Overview
- 14.4.2. Key Revenue and Financials
- 14.4.3. Recent Developments
- 14.4.4. Key Personnel/Key Contact Person
- 14.4.5. Key Product/Services Offered
- 14.5. United Microelectronics Corporation
 - 14.5.1. Business Overview
 - 14.5.2. Key Revenue and Financials
 - 14.5.3. Recent Developments
 - 14.5.4. Key Personnel/Key Contact Person
 - 14.5.5. Key Product/Services Offered
- 14.6. SK hynix Inc.
 - 14.6.1. Business Overview
 - 14.6.2. Key Revenue and Financials
 - 14.6.3. Recent Developments
 - 14.6.4. Key Personnel/Key Contact Person
 - 14.6.5. Key Product/Services Offered
- 14.7. Micron Technology, Inc.
 - 14.7.1. Business Overview
 - 14.7.2. Key Revenue and Financials
 - 14.7.3. Recent Developments
 - 14.7.4. Key Personnel/Key Contact Person
 - 14.7.5. Key Product/Services Offered
- 14.8. Semiconductor Manufacturing International Corporation
 - 14.8.1. Business Overview
 - 14.8.2. Key Revenue and Financials
 - 14.8.3. Recent Developments
 - 14.8.4. Key Personnel/Key Contact Person
 - 14.8.5. Key Product/Services Offered
- 14.9. STMicroelectronics International N.V.
 - 14.9.1. Business Overview
 - 14.9.2. Key Revenue and Financials
 - 14.9.3. Recent Developments
 - 14.9.4. Key Personnel/Key Contact Person
 - 14.9.5. Key Product/Services Offered
- 14.10. NXP Semiconductors N.V.
 - 14.10.1. Business Overview
 - 14.10.2. Key Revenue and Financials
 - 14.10.3. Recent Developments

14.10.4. Key Personnel/Key Contact Person

14.10.5. Key Product/Services Offered

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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