

ECC Memory Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Memory Error (Hard error, Soft error), By Type (DDR4, DDR3, DDR2, DDR1, Others) and By Application (Data centers, Workstation servers, Cloud servers, Others), By Region, By Competition, 2019-2029F

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Abstracts

Global ECC Memory Market was valued at USD 12.38 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 6.30% through 2029. The Global ECC Memory Market is currently witnessing a remarkable phase of expansion, driven by a convergence of influential factors that are redefining how industries and consumers harness the capabilities of advanced semiconductor technology across a diverse array of electronic devices and applications. ECC Memory, a fundamental technology in this domain, is playing a transformative role by enhancing performance, reducing power consumption, and enabling the development of cutting-edge electronic devices and applications. Let's delve into the driving forces propelling the expansion and adoption of ECC Memory across various sectors.

Key Market Drivers:

Insatiable Demand for Increased Computational Power and Energy Efficiency:

The Global ECC Memory Market is experiencing a significant growth phase, driven by a combination of influential factors that are reshaping how industries and consumers leverage advanced semiconductor technology across a broad spectrum of electronic devices and applications. ECC Memory characterized by its innovative three-dimensional transistor structure, is playing a pivotal role in enhancing device

performance, reducing power consumption, and enabling the development of cutting-edge electronic applications. Let's delve into the first key driving factor behind the expansion and adoption of ECC Memory in the global market.

One of the primary drivers fueling the adoption of ECC Memory is the insatiable demand for increased computational power and energy efficiency. In today's digital age, consumers and industries alike are in pursuit of solutions that can deliver higher processing speeds while minimizing power consumption. ECC Memory is uniquely positioned to address this critical need by providing a three-dimensional transistor structure that significantly enhances both performance and energy efficiency.

Traditional silicon-based transistors have been reaching their physical limits, making it increasingly challenging to further boost computational power without a dramatic increase in energy consumption. This limitation has prompted the search for alternative technologies, and ECC Memory has emerged as a promising solution. The three-dimensional design of ECC Memory transistors allows for more efficient control of electrical currents, reducing energy wastage and enabling the creation of faster, more energy-efficient electronic devices.

ECC Memory empowers electronic devices to execute more intricate tasks with reduced power consumption, making it an essential component for a wide spectrum of applications, ranging from smartphones to data centers. The demand for these applications is relentless, and ECC Memory provides the key to meeting this demand while simultaneously addressing the pressing need for energy-efficient computing solutions.

Advancements in Technological Innovation:

In addition to the demand for increased computational power and energy efficiency, the Global ECC Memory Market is driven by significant advancements in technological innovation. As industries continually push the boundaries of technological progress, there is a growing demand for semiconductor devices capable of advanced performance and integration. ECC Memory with its remarkable ability to scale down transistors and enhance the density of electronic components, has positioned itself as an essential component for a broad range of applications.

The world is witnessing a transformative wave of technological innovation, driven by emerging fields such as artificial intelligence (AI), machine learning, autonomous systems, and the Internet of Things (IoT). These technologies rely on semiconductor

devices that can deliver high performance and efficient integration. ECC Memory, with its nanoscale precision and ability to pack more electronic components into a given space, plays a pivotal role in facilitating these innovations.

Artificial intelligence, for example, depends on the processing of vast amounts of data in real-time. ECC Memory, in conjunction with advanced packaging techniques, enables faster and more energy-efficient deep learning and neural network processing. The dense and efficient integration of components on ECC Memory-based devices ensures that AI applications can perform complex computations with minimal power consumption, a crucial factor for both mobile and data center applications.

The demand for ECC Memory is particularly pronounced in the realm of 5G technology. The deployment of 5G networks requires faster and more energy-efficient communication devices and infrastructure. ECC Memory-based devices and components offer the speed and efficiency needed for seamless connectivity in the 5G era. This technology is integral to supporting the higher data transfer rates and lower latency that 5G promises.

ECC Memory contributes to the development of autonomous systems. Whether it's autonomous vehicles or drones, ECC Memory enhances sensor processing, control algorithms, and decision-making. The result is safer and more capable autonomous solutions that rely on the precision and efficiency provided by ECC Memory-based components.

Key Market Challenges

Technical Complexity and Precision:

ECC Memory faces several significant challenges that can impact the industry's development and require proactive solutions. One of the foremost challenges in this market is the high level of technical complexity and precision required.

ECC Memory, with its nanoscale three-dimensional transistor structure, is at the forefront of semiconductor innovation. The complexity arises from the need to manipulate and control materials at an atomic and molecular scale, which demands a deep understanding of nanotechnology and materials science. Manufacturing components at this scale, including transistors and sensors, requires intricate processes, rigorous quality control, and constant innovation.

The precise fabrication of ECC Memory components is critical because even minor imperfections can lead to device malfunctions, reduced efficiency, or even complete failure. Achieving this level of precision consistently is a formidable challenge, especially as the demand for smaller, faster, and more power-efficient devices continues to grow.

ECC Memory introduces new materials and manufacturing methods that may not be well-established. Innovations in materials science and nanotechnology must be rigorously tested and validated to ensure that they meet the industry's high-performance and reliability standards.

Quality Assurance and Testing:

Ensuring the quality and reliability of ECC Memory is another formidable challenge in the Global ECC Memory Market. Quality assurance is of paramount importance in the semiconductor industry, where devices are expected to operate flawlessly, especially in critical applications like medical devices, aerospace, and automotive systems.

As ECC Memory involves the manipulation of materials at the nanoscale, the potential for defects and imperfections is significantly higher. During the manufacturing process, there is a risk of introducing defects that can affect the final product's reliability and performance. These defects can originate from material impurities, fabrication errors, or environmental factors, among others.

The challenge lies in identifying and mitigating these defects to ensure that ECC Memory devices meet the stringent quality and performance standards of the semiconductor industry. The inspection, testing, and validation processes must be comprehensive and reliable to identify any flaws and ensure the devices' consistency and reliability.

Quality control in the ECC Memory Market often involves advanced techniques, including electron microscopy, atomic force microscopy, and other nanoscale characterization methods. Implementing these techniques and ensuring that every ECC Memory device meets the industry's exacting standards can be a complex and resource-intensive task.

Key Market Trends

Rapid Miniaturization and Increased Integration

One of the prominent trends in the Global ECC Memory Market is the rapid miniaturization of electronic components and increased integration of functionalities. This trend is driven by the continuous demand for smaller, more powerful, and energy-efficient electronic devices across various industries. ECC Memory, with its nanoscale precision and three-dimensional transistor structure, is at the forefront of enabling this trend.

The miniaturization of electronic components is particularly evident in the development of wearables, smartphones, ultra-thin laptops, and portable medical devices. These devices are becoming sleeker, more compact, and yet more capable than ever before, thanks to ECC Memory ability to pack more functionality into smaller spaces. As a result, consumers can enjoy devices that are not only highly portable but also powerful and energy-efficient.

In the healthcare sector, portable medical devices equipped with ECC Memory components are transforming patient care. Devices like wearable monitors, remote diagnostic tools, and even smart contact lenses are becoming more practical and efficient, enhancing patient outcomes and reducing the burden on healthcare systems.

ECC Memory is driving advancements in autonomous systems, such as self-driving cars and drones. The miniaturization of components and sensors, coupled with increased integration, allows these autonomous systems to be more compact, agile, and capable. As a result, we are witnessing the development of self-driving cars that are safer and more energy-efficient, and drones that can perform a wide range of tasks, from surveillance to delivery.

This trend is expected to continue in the Global ECC Memory Market, with manufacturers pushing the boundaries of miniaturization and integration to meet the growing demands of industries and consumers. It underscores the transformative role of ECC Memory in shaping the future of electronic devices.

Enhanced Data Security and Privacy

Another significant trend in the Global ECC Memory Market is the heightened focus on data security and privacy. In an increasingly interconnected world where data breaches and cyber threats are on the rise, ECC Memory is playing a pivotal role in enhancing the security features of semiconductor devices.

ECC Memory offers advanced capabilities, such as secure enclaves and hardware-

based encryption, which are indispensable for safeguarding sensitive data and protecting against cyber threats. This trend is particularly relevant in applications like mobile payments, secure communication, and critical infrastructure. In the financial sector, mobile payment systems are relying on ECC Memory to secure transactions and protect user data. The use of hardware-based encryption ensures that financial transactions are not only fast and convenient but also highly secure. Secure communication, both for personal use and in corporate environments, is benefiting from ECC Memory. Devices equipped with ECC Memory components can establish secure channels for data transmission, protecting against eavesdropping and data breaches. This trend is particularly critical in industries where data privacy and confidentiality are paramount, such as healthcare, finance, and defense. Moreover, the protection of critical infrastructure, including power grids, transportation systems, and telecommunications networks, relies on the robust security features provided by ECC Memory. By integrating secure enclaves and encryption at the hardware level, ECC Memory contributes to the reliability and trustworthiness of these critical systems. The trend of enhanced data security and privacy is expected to continue as the importance of safeguarding sensitive information grows in an interconnected world. ECC Memory will remain a key enabler of secure electronic systems across various sectors.

Segmental Insights

Memory Error Insights

The hard error segment held the largest market share in 2023. In the ECC Memory Market, the segment addressing hard errors is witnessing robust growth driven by several key market drivers. Hard errors refer to persistent and irreparable memory faults that can adversely affect system performance and reliability. As semiconductor technology advances and memory densities increase, the occurrence of hard errors becomes more prevalent, posing significant challenges for computing systems across various industries.

One of the primary drivers for ECC memory in the hard error segment is the relentless pursuit of higher memory densities and performance in computing systems. With the continuous evolution of technology, there is a growing demand for memory modules with larger capacities to support increasingly complex applications and workloads. However, as memory densities increase, the likelihood of hard errors occurring also escalates due to factors such as process variations, aging effects, and manufacturing defects. ECC memory, equipped with error detection and correction capabilities, offers a viable solution to mitigate the impact of hard errors, ensuring data integrity and system

reliability even in high-density memory configurations.

The proliferation of mission-critical applications across industries such as finance, healthcare, and telecommunications amplifies the need for ECC memory in addressing hard errors. In these sectors, any instance of data corruption or system failure can have severe consequences, leading to financial losses, compromised patient care, or service disruptions. ECC memory provides an added layer of protection against hard errors by detecting and correcting memory faults in real-time, thereby safeguarding critical data and ensuring uninterrupted operation of vital applications and services.

The rise of edge computing and IoT (Internet of Things) devices further drives the demand for ECC memory in the hard error segment. Edge computing brings computational capabilities closer to the data source, enabling faster processing and reduced latency for real-time applications. However, edge devices are often deployed in harsh or remote environments where environmental factors such as temperature fluctuations, electromagnetic interference, and mechanical stress can contribute to the occurrence of hard errors in memory. By integrating ECC memory into edge devices, manufacturers can enhance the reliability and durability of these systems, ensuring consistent performance and data integrity in challenging operating conditions.

Regional Insights

North America held the largest market share in 2023. North America is home to a number of major data center operators and cloud computing providers, such as Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform. These companies are investing heavily in ECC memory to ensure the reliability and performance of their data centers. HPC applications are increasingly being used in a variety of industries, including healthcare, finance, and manufacturing. These applications require high-performance memory with high reliability. ECC memory is the preferred memory choice for HPC applications.

The US government has stringent regulations in place to protect data security and privacy. ECC memory is often required in government systems to ensure the security and integrity of data. Other factors driving the growth of the ECC memory market in North America include the increasing adoption of artificial intelligence (AI) and machine learning (ML) technologies, and the growing demand for edge computing applications.

Key Market Players

IBM Corporation

Intel Corporation

Micron Technology, Inc.

Samsung Electronics Co., Ltd.

SK Hynix Inc.

Nanya Technology Corporation

Kingston Technology Company Inc.

Infineon Technologies AG

ADATA Technology Co., Ltd.

SMART Global Holdings, Inc

Report Scope:

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

ECC Memory Market, By Memory Error:

Hard error

Soft error

ECC Memory Market, By Type:

DDR4

DDR3

DDR2

DDR1

Others

ECC Memory Market, By Application:

Data centers

Workstation servers

Cloud servers

Others

ECC Memory Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global ECC Memory Market.

Available Customizations:

Global ECC Memory market report with the given market data, Tech Sci Research

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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 ECC MEMORY MARKET OVERVIEW

6. GLOBAL ECC MEMORY MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Memory Error (Hard error, Soft error)
 - 6.2.2. By Type (DDR4, DDR3, DDR2, DDR1, Others)

- 6.2.3. By Application (Data centers, Workstation servers, Cloud servers, 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 ECC MEMORY MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Memory Error
 - 7.2.2. By Type
 - 7.2.3. By Application
 - 7.2.4. By Country
- 7.3. North America: Country Analysis
 - 7.3.1. United States ECC Memory 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 Memory Error
 - 7.3.1.2.2. By Type
 - 7.3.1.2.3. By Application
 - 7.3.2. Canada ECC Memory 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 Memory Error
 - 7.3.2.2.2. By Type
 - 7.3.2.2.3. By Application
 - 7.3.3. Mexico ECC Memory 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 Memory Error
 - 7.3.3.2.2. By Type
 - 7.3.3.2.3. By Application

8. EUROPE ECC MEMORY MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Memory Error
 - 8.2.2. By Type
 - 8.2.3. By Application
 - 8.2.4. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany ECC Memory 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 Memory Error
 - 8.3.1.2.2. By Type
 - 8.3.1.2.3. By Application
 - 8.3.2. France ECC Memory 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 Memory Error
 - 8.3.2.2.2. By Type
 - 8.3.2.2.3. By Application
 - 8.3.3. United Kingdom ECC Memory 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 Memory Error
 - 8.3.3.2.2. By Type
 - 8.3.3.2.3. By Application
 - 8.3.4. Italy ECC Memory 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 Memory Error
 - 8.3.4.2.2. By Type
 - 8.3.4.2.3. By Application
 - 8.3.5. Spain ECC Memory 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 Memory Error
 - 8.3.5.2.2. By Type
 - 8.3.5.2.3. By Application.

9. SOUTH AMERICA ECC MEMORY MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Memory Error
 - 9.2.2. By Type
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil ECC Memory 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 Memory Error
 - 9.3.1.2.2. By Type
 - 9.3.1.2.3. By Application
 - 9.3.2. Colombia ECC Memory 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 Memory Error
 - 9.3.2.2.2. By Type
 - 9.3.2.2.3. By Application
 - 9.3.3. Argentina ECC Memory 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 Memory Error
 - 9.3.3.2.2. By Type
 - 9.3.3.2.3. By Application

10. MIDDLE EAST & AFRICA ECC MEMORY MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Memory Error
 - 10.2.2. By Type
 - 10.2.3. By Application
 - 10.2.4. By Country
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Saudi Arabia ECC Memory 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 Memory Error
 - 10.3.1.2.2. By Type
 - 10.3.1.2.3. By Application
 - 10.3.2. UAE ECC Memory 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 Memory Error
 - 10.3.2.2.2. By Type
 - 10.3.2.2.3. By Application
 - 10.3.3. South Africa ECC Memory 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 Memory Error
 - 10.3.3.2.2. By Type
 - 10.3.3.2.3. By Application
 - 10.3.4. Turkey ECC Memory 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 Memory Error
 - 10.3.4.2.2. By Type
 - 10.3.4.2.3. By Application
 - 10.3.5. Israel ECC Memory 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 Memory Error
 - 10.3.5.2.2. By Type
 - 10.3.5.2.3. By Application

11. ASIA PACIFIC ECC MEMORY MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Memory Error
 - 11.2.2. By Type
 - 11.2.3. By Application
 - 11.2.4. By Country
- 11.3. Asia-Pacific: Country Analysis
 - 11.3.1. China ECC Memory 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 Memory Error
 - 11.3.1.2.2. By Type
 - 11.3.1.2.3. By Application
 - 11.3.2. India ECC Memory 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 Memory Error
 - 11.3.2.2.2. By Type
 - 11.3.2.2.3. By Application
 - 11.3.3. Japan ECC Memory 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 Memory Error
 - 11.3.3.2.2. By Type
 - 11.3.3.2.3. By Application
 - 11.3.4. South Korea ECC Memory Market Outlook
 - 11.3.4.1. Market Size & Forecast

- 11.2.4.1.1. By Value
- 11.2.4.2. Market Share & Forecast
 - 11.2.4.2.1. By Memory Error
 - 11.2.4.2.2. By Type
 - 11.2.4.2.3. By Application
- 11.2.5. Australia ECC Memory Market Outlook
 - 11.2.5.1. Market Size & Forecast
 - 11.2.5.1.1. By Value
 - 11.2.5.2. Market Share & Forecast
 - 11.2.5.2.1. By Memory Error
 - 11.2.5.2.2. By Type
 - 11.2.5.2.3. By Application

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPANY PROFILES

- 14.1. IBM Corporation
 - 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. Intel Corporation
 - 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. Micron Technology, Inc.
 - 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. Samsung Electronics Co., Ltd.
 - 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. SK Hynix Inc.
 - 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. Nanya Technology Corporation
 - 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. Kingston Technology Company 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. Infineon Technologies AG
 - 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. ADATA Technology Co., Ltd.
 - 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. SMART Global Holdings, Inc.
 - 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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