+44 20 8123 2220
info@marketpublishers.com

North America Embedded Non-Volatile Memory Market Forecast to 2030 - Regional Analysis - by Product (eFlash, eE2PROM, FRAM, and Others) and Application (Consumer Electronics, Automotive, Robotics, and Others)

https://marketpublishers.com/r/N1923FCE79B7EN.html
Date: June 2024
Pages: 90
Price: US$ 2,485.00 (Single User License)
ID: N1923FCE79B7EN

Abstracts

The North America embedded non-volatile memory market was valued at US$ 206.72 million in 2022 and is expected to reach US$ 1,110.56 million by 2030; it is estimated to grow at a CAGR of 23.4% from 2022-2030.

Increase in Adoption of Consumer Electronics Fuel North America Embedded Non-Volatile Memory Market

Embedded non-volatile memory plays a crucial role in the consumer electronics industry. Embedded non-volatile memory is placed in microcontrollers, which are used in embedded systems and further integrated into numerous consumer electronic devices such as cameras, smartphones, smartwatches, microwave ovens, washing machines, smart TVs, tablets, printers, gaming consoles, smart speakers, digital cameras, and home security systems. The embedded non-volatile memory supports data storage that is found in microcontrollers and other electronics. The user keeps this data for further processing, including data redundancy, trimming, programming, identification, and encryption. Embedded non-volatile memory allows users to store data in the absence of electric power, which increases the demand among consumers and drives the embedded non-volatile memory market. Embedded non-volatile memory is used in memory cards and USB sticks that are integrated into a variety of consumer devices such as smartphones, smartwatches, and digital cameras for data storage.

These devices use embedded MultiMediaCard (eMMC) memory chips to store

+44 20 8123 2220
info@marketpublishers.com

controller code in storage drives and personal electronic devices. The growing adoption of consumer electronics devices among consumers is driving the embedded non-volatile memory market. According to Canalys, the demand for smartwatches has grown by 3%, and for basic watches, the demand increased by 21% in 2022.

Consumers across the globe adopt smartwatches to track fitness and health data. Major players in the smartwatch industry are engaging in adding features to smartwatches to attract more customers. For instance, in July 2023, Apple Inc. developed a smartwatch capable of identifying Parkinson's disease, diabetes, and Lyme disease, which is expected to be popular among the elderly population. The embedded non-volatile memory supports embedded systems to process the data generated by smartwatches to track users' health and fitness. Moreover, new specifications are currently being developed by server, storage, and application vendors to improve product interaction with NVM. The constant generation of new mobile devices fuels the expansion of NVM products. In 2021, 30-nm node technologies were ramping up, 20-nm node technologies were transitioning to mass production, and a 10-nm node technology was developing to fulfill the demand. Furthermore, to serve a massive amount of data correspondence, the future market requires high-speed operation up to about 1,500 MB/s. These factors are fueling the production of consumer electronics, thereby boosting the demand for embedded non-volatile memory.

North America Embedded Non-Volatile Memory Market Overview

The North America embedded non-volatile memory market is segmented into the US, Canada, and Mexico. As the adoption of consumer electronic devices is high, the consumer electronics industry is booming in the region. Smartphones, tablets, television sets, personal computers, washing machines, and other consumer electronics devices have found a wider consumer base in the region. Additionally, the rising adoption of 5G networks is creating a strong opportunity for the market players. According to Ericsson's mobility report, North America has the second-largest penetration of 5G devices after Asia Pacific. Several network providers have already rolled out 5G services focusing on mobile broadband and fixed wireless access. Further, the number of 5G subscriptions is expected to increase faster than that of 4G in the coming years. By 2026, the region is projected to hold the largest share of the total 5G subscriptions globally, accounting for 360 million subscriptions. Automobile ownership is a widespread trend in North America. According to the International Council on Clean Transportation Report 2021, the US recorded ~330,000 new sales of electric vehicles in 2020, making it the third-largest electric vehicle market. As per the data published by the International Energy Agency (IEA), the demand for battery electric vehicles (BEV) in the US grew from 231

+44 20 8123 2220
info@marketpublishers.com

thousand units in 2020 to 466 thousand units in 2021; also, the demand for plug-in hybrid electric vehicles (PHEV) increased from 64 thousand units in 2020 to 165 thousand units in 2021. Thus, such growth prospects in the EV industry are increasing the deployment of embedded non-volatile memories. More than 2 million EVs have been registered in the US, and the count is anticipated to reach 18.7 million by 2030. Moreover, electric companies are investing ~US$ 3 billion in the deployment of charging infrastructure, thus boosting electrically powered transportation. The advent of connected and autonomous cars in North America is propelling the growth of the embedded non-volatile memory market by creating the demand for microchips. The increasing adoption of electric, autonomous, and connected vehicles has surged the demand for advanced electronic devices. Advanced driver-assistance systems (ADAS), AI support, 5G antennas, and advanced processors use microchips and components. Moreover, the integration of devices is done using advanced packaging technology, which is driving technology adoption in the automotive sector. The evolution of on-board diagnostic (OBD) platforms equipped with microelectronics is accelerating the market growth with increased demand for embedded non-volatile memory chips.

North America Embedded Non-Volatile Memory Market Revenue and Forecast to 2030 (US$ Million)

North America Embedded Non-Volatile Memory Market Segmentation

The North America embedded non-volatile memory market is segmented based on product, application, and country. Based on product, the North America embedded non-volatile memory market is categorized into eFlash, eE2PROM, FRAM, and others. The eFlash segment held the largest market share in 2022.

Based on application, the North America embedded non-volatile memory market is segmented into consumer electronics, automotive, robotics, and others. The others segment held the largest market share in 2022.

Based on country, the North America embedded non-volatile memory market is segmented into the US, Canada, and Mexico. The US dominated the North America embedded non-volatile memory market share in 2022.

Microchip Technology Inc, Tower Semiconductor, GlobalFoundries Inc, eMemory Technology Inc, Texas Instruments Inc, Hua Hong Semiconductor Ltd, Taiwan Semiconductor Manufacturing Co Ltd, United Microelectronics Corp, Semiconductor Manufacturing International Corp, and Synopsys Inc are some of the leading companies

+44 20 8123 2220
info@marketpublishers.com

operating in the North America embedded non-volatile memory market.

+44 20 8123 2220
info@marketpublishers.com

Contents

1. INTRODUCTION

1.1 The Insight Partners Research Report Guidance
1.2 Market Segmentation

2. EXECUTIVE SUMMARY

2.1 Key Insights
2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

3.1 Coverage
3.2 Secondary Research
3.3 Primary Research

4. NORTH AMERICA EMBEDDED NON-VOLATILE MEMORY MARKET LANDSCAPE

4.1 Overview
4.2 Ecosystem Analysis
  4.2.1 List of Vendors in Value Chain:

5. NORTH AMERICA EMBEDDED NON-VOLATILE MEMORY MARKET - KEY INDUSTRY DYNAMICS

5.1 Drivers
  5.1.1 Increase in Adoption of Consumer Electronics
  5.1.2 Expansion of Automotive Industry
5.2 Restraints
  5.2.1 Global Shortage of Semiconductor Chips
5.3 Opportunities
  5.3.1 Increasing Demand in Low-Power IoT Modules
5.4 Trends
  5.4.1 Growing Investment in Commercialization of Embedded Non-Volatile Memory
5.5 Impact of Drivers and Restraints:

+44 20 8123 2220
info@marketpublishers.com

6. EMBEDDED NON-VOLATILE MEMORY MARKET – NORTH AMERICA MARKET ANALYSIS

6.1 Embedded Non-Volatile Memory Market Revenue (US$ Million), 2022 – 2030
6.2 Embedded Non-Volatile Memory Market Forecast and Analysis

7. NORTH AMERICA EMBEDDED NON-VOLATILE MEMORY MARKET ANALYSIS – PRODUCT

7.1 eFlash
  7.1.1 Overview
  7.1.2 eFlash Market Revenue and Forecasts to 2030 (US$ Million)
7.2 eE2PROM
  7.2.1 Overview
  7.2.2 eE2PROM Market Revenue and Forecasts to 2030 (US$ Million)
7.3 FRAM
  7.3.1 Overview
  7.3.2 FRAM Market Revenue and Forecasts to 2030 (US$ Million)
7.4 Others
  7.4.1 Overview
  7.4.2 Others Market Revenue and Forecasts to 2030 (US$ Million)

8. NORTH AMERICA EMBEDDED NON-VOLATILE MEMORY MARKET ANALYSIS – APPLICATION

8.1 Consumer Electronics
  8.1.1 Overview
  8.1.2 Consumer Electronics Market Revenue and Forecasts to 2030 (US$ Million)
8.2 Automotive
  8.2.1 Overview
  8.2.2 Automotive Market Revenue and Forecasts to 2030 (US$ Million)
8.3 Robotics
  8.3.1 Overview
  8.3.2 Robotics Market Revenue and Forecasts to 2030 (US$ Million)
8.4 Others
  8.4.1 Overview
  8.4.2 Others Market Revenue and Forecasts to 2030 (US$ Million)

9. NORTH AMERICA EMBEDDED NON-VOLATILE MEMORY MARKET - COUNTRY

+44 20 8123 2220
info@marketpublishers.com

ANALYSIS

9.1 North America
9.1.1 North America Embedded Non-Volatile Memory Market Overview
9.1.2 North America Embedded Non-Volatile Memory Market Revenue and Forecasts and Analysis - By Countries
9.1.2.1 US Embedded Non-Volatile Memory Market Revenue and Forecasts to 2030 (US$ Mn)
9.1.2.1.1 US Embedded Non-Volatile Memory Market Breakdown by Product
9.1.2.1.2 US Embedded Non-Volatile Memory Market Breakdown by Application
9.1.2.2 Canada Embedded Non-Volatile Memory Market Revenue and Forecasts to 2030 (US$ Mn)
9.1.2.2.1 Canada Embedded Non-Volatile Memory Market Breakdown by Product
9.1.2.2.2 Canada Embedded Non-Volatile Memory Market Breakdown by Application
9.1.2.3 Mexico Embedded Non-Volatile Memory Market Revenue and Forecasts to 2030 (US$ Mn)
9.1.2.3.1 Mexico Embedded Non-Volatile Memory Market Breakdown by Product
9.1.2.3.2 Mexico Embedded Non-Volatile Memory Market Breakdown by Application

10. COMPETITIVE LANDSCAPE

10.1 Heat Map Analysis By Key Players

11. INDUSTRY LANDSCAPE

11.1 Overview
11.2 Market Initiative
11.3 New Product Development
11.4 Merger and Acquisition

12. COMPANY PROFILES

12.1 Microchip Technology Inc
12.1.1 Key Facts
12.1.2 Business Description
12.1.3 Products and Services
12.1.4 Financial Overview
12.1.5 SWOT Analysis

+44 20 8123 2220
info@marketpublishers.com

12.1.6 Key Developments
12.2 Tower Semiconductor
12.2.1 Key Facts
12.2.2 Business Description
12.2.3 Products and Services
12.2.4 Financial Overview
12.2.5 SWOT Analysis
12.2.6 Key Developments
12.3 Globalfoundries Inc
12.3.1 Key Facts
12.3.2 Business Description
12.3.3 Products and Services
12.3.4 Financial Overview
12.3.5 SWOT Analysis
12.3.6 Key Developments
12.4 eMemory Technology Inc.
12.4.1 Key Facts
12.4.2 Business Description
12.4.3 Products and Services
12.4.4 Financial Overview
12.4.5 SWOT Analysis
12.4.6 Key Developments
12.5 Texas Instruments Inc
12.5.1 Key Facts
12.5.2 Business Description
12.5.3 Products and Services
12.5.4 Financial Overview
12.5.5 SWOT Analysis
12.5.6 Key Developments
12.6 Hua Hong Semiconductor Limited
12.6.1 Key Facts
12.6.2 Business Description
12.6.3 Products and Services
12.6.4 Financial Overview
12.6.5 SWOT Analysis
12.6.6 Key Developments
12.7 Taiwan Semiconductor Manufacturing Co Ltd
12.7.1 Key Facts
12.7.2 Business Description

+44 20 8123 2220
info@marketpublishers.com

12.7.3 Products and Services
12.7.4 Financial Overview
12.7.5 SWOT Analysis
12.7.6 Key Developments
12.8 United Microelectronics Corp
12.8.1 Key Facts
12.8.2 Business Description
12.8.3 Products and Services
12.8.4 Financial Overview
12.8.5 SWOT Analysis
12.8.6 Key Developments
12.9 Semiconductor Manufacturing International Corp
12.9.1 Key Facts
12.9.2 Business Description
12.9.3 Products and Services
12.9.4 Financial Overview
12.9.5 SWOT Analysis
12.9.6 Key Developments
12.10 Synopsys Inc
12.10.1 Key Facts
12.10.2 Business Description
12.10.3 Products and Services
12.10.4 Financial Overview
12.10.5 SWOT Analysis
12.10.6 Key Developments

13. APPENDIX

13.1 Word Index

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: North America Embedded Non-Volatile Memory Market Forecast to 2030 - Regional Analysis - by Product (eFlash, eE2PROM, FRAM, and Others) and Application (Consumer Electronics, Automotive, Robotics, and Others)

Product link: https://marketpublishers.com/r/N1923FCE79B7EN.html

Price: US$ 2,485.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/N1923FCE79B7EN.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

Custumer 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

+44 20 8123 2220
info@marketpublishers.com

and fax the completed form to +44 20 7900 3970