

2018-2023 Global Embedded Non-Volatile Memory Consumption Market Report

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Abstracts

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In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Embedded Non-Volatile Memory market for 2018-2023.

Embedded non-volatile memory (eNVM) has become an important and essential IP that adds flexibility to electronic products and helps accelerate time-to-market. UMC offers state-of-the-art embedded non-volatile solutions to meet a variety of embedded system applications. High quality embedded non-volatile memories (eFuse, eOTP, eMTP, eE2 PROM and eFlash) can be used for trimming, redundancy, data encryption, ID, coding and programming.

The market growth is attributed to the increasing penetration of IoT-based devices and services in the developing countries. The need for ubiquitous connectivity necessitates rapid deployment of inexpensive and low power consuming products with the ability to communicate securely. Therefore, proliferation of IoT-based devices and services is estimated to spur the demand significantly over the forecast period.

Embedded non-volatile memory is a small-sized chip used to meet a variety of embedded system applications. It is primarily used in smart card, SIM card,

microcontrollers, PMIC, and display driver IC for the purpose of data encryption, programming, trimming, identification, coding, and redundancy. Manufacturers focus on providing secured eNVMs for MCUs used in the IoT-based devices.

High efficiency and compact design associated with eNVMs is expected to replace comparatively bulky, conventional, standalone non-volatile memories. It is one of the key components of IoT-based microcontroller devices. Use of low power and low-cost embedded non-volatile memories can decrease the consumer electronics cost



significantly, which is also anticipated to catapult product demand over the next few years. The growing need for security in connected device is anticipated to provide avenues for growth owing to the secured layer provided at the most vulnerable physical layer, which cannot be breached through passive, semi-invasive, and invasive methods. These memories are also used in automobiles, particularly in head-up displays and next generation technology such as key-less push button start features. Therefore, increasing demand for smart cars is anticipated to catalyze eNVM market growth over the next eight years. Miniaturization of devices such as smartphones as well as automobile components has instigated manufacturers to reduce the process node size without affecting the performance. For instance, Chinese manufacturer, HHGrace is investing in R&D, in order to scale down the process node to deliver compact and efficiently performing eNVM solutions, PWM ICs, and MEMS chips.

Significant and lasting barriers make entry into this market difficult. These barriers include, but are not limited to: (i) product development costs; (ii) capital requirements; (iii) intellectual property rights; (iv) regulatory requirement; and (v) Transitions' unfair methods of competition.

Despite the presence of competition problems, due to the global recovery trend is clear, investors are still optimistic about this area, the future will still have more new investment enter the field. Even so, the market is intensely competitive .The study group recommends the new entrants just having money but without technical advantage and upstream and downstream support do not to enter into this field.

Over the next five years, LPI(LP Information) projects that Embedded Non-Volatile Memory will register a 18.0% CAGR in terms of revenue, reach US\$ 16800 million by 2023, from US\$ 6220 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Embedded Non-Volatile Memory market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

200mm Fabs

300mm Fabs

Others



Segmentation by application:

Consumer Electronics

ΙoΤ

Telecommunications

Automotive

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India



Australia	
Europe	
Germany	
France	
UK	
Italy	
Russia	
Spain	
Middle East & Africa	
Egypt	
South Africa	
Israel	
Turkey	
GCC Countries	

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

TSMC

GlobalFoundries

UMC



SMIC

Samsung

HHGrace

TowerJazz

Microchip Technology

Fujitsu

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

Research objectives

To study and analyze the global Embedded Non-Volatile Memory consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Embedded Non-Volatile Memory market by identifying its various subsegments.

Focuses on the key global Embedded Non-Volatile Memory manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Embedded Non-Volatile Memory with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).



To project the consumption of Embedded Non-Volatile Memory submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.



Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Research Objectives
- 1.3 Years Considered
- 1.4 Market Research Methodology
- 1.5 Economic Indicators
- 1.6 Currency Considered

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Embedded Non-Volatile Memory Consumption 2013-2023
- 2.1.2 Embedded Non-Volatile Memory Consumption CAGR by Region
- 2.2 Embedded Non-Volatile Memory Segment by Type
 - 2.2.1 200mm Fabs
 - 2.2.2 300mm Fabs
 - 2.2.3 Others
- 2.3 Embedded Non-Volatile Memory Consumption by Type
- 2.3.1 Global Embedded Non-Volatile Memory Consumption Market Share by Type (2013-2018)

2.3.2 Global Embedded Non-Volatile Memory Revenue and Market Share by Type (2013-2018)

2.3.3 Global Embedded Non-Volatile Memory Sale Price by Type (2013-2018)

2.4 Embedded Non-Volatile Memory Segment by Application

- 2.4.1 Consumer Electronics
- 2.4.2 IoT
- 2.4.3 Telecommunications
- 2.4.4 Automotive
- 2.4.5 Others

2.5 Embedded Non-Volatile Memory Consumption by Application

2.5.1 Global Embedded Non-Volatile Memory Consumption Market Share by Application (2013-2018)

2.5.2 Global Embedded Non-Volatile Memory Value and Market Share by Application (2013-2018)

2.5.3 Global Embedded Non-Volatile Memory Sale Price by Application (2013-2018)



3 GLOBAL EMBEDDED NON-VOLATILE MEMORY BY PLAYERS

- 3.1 Global Embedded Non-Volatile Memory Sales Market Share by Players
- 3.1.1 Global Embedded Non-Volatile Memory Sales by Players (2016-2018)

3.1.2 Global Embedded Non-Volatile Memory Sales Market Share by Players (2016-2018)

- 3.2 Global Embedded Non-Volatile Memory Revenue Market Share by Players
- 3.2.1 Global Embedded Non-Volatile Memory Revenue by Players (2016-2018)

3.2.2 Global Embedded Non-Volatile Memory Revenue Market Share by Players (2016-2018)

3.3 Global Embedded Non-Volatile Memory Sale Price by Players

3.4 Global Embedded Non-Volatile Memory Manufacturing Base Distribution, Sales Area, Product Types by Players

3.4.1 Global Embedded Non-Volatile Memory Manufacturing Base Distribution and Sales Area by Players

- 3.4.2 Players Embedded Non-Volatile Memory Products Offered
- 3.5 Market Concentration Rate Analysis
- 3.5.1 Competition Landscape Analysis
- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) (2016-2018)
- 3.6 New Products and Potential Entrants
- 3.7 Mergers & Acquisitions, Expansion

4 EMBEDDED NON-VOLATILE MEMORY BY REGIONS

4.1 Embedded Non-Volatile Memory by Regions

- 4.1.1 Global Embedded Non-Volatile Memory Consumption by Regions
- 4.1.2 Global Embedded Non-Volatile Memory Value by Regions
- 4.2 Americas Embedded Non-Volatile Memory Consumption Growth
- 4.3 APAC Embedded Non-Volatile Memory Consumption Growth
- 4.4 Europe Embedded Non-Volatile Memory Consumption Growth
- 4.5 Middle East & Africa Embedded Non-Volatile Memory Consumption Growth

5 AMERICAS

5.1 Americas Embedded Non-Volatile Memory Consumption by Countries

5.1.1 Americas Embedded Non-Volatile Memory Consumption by Countries (2013-2018)

5.1.2 Americas Embedded Non-Volatile Memory Value by Countries (2013-2018)5.2 Americas Embedded Non-Volatile Memory Consumption by Type



- 5.3 Americas Embedded Non-Volatile Memory Consumption by Application
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Key Economic Indicators of Few Americas Countries

6 APAC

- 6.1 APAC Embedded Non-Volatile Memory Consumption by Countries
- 6.1.1 APAC Embedded Non-Volatile Memory Consumption by Countries (2013-2018)
- 6.1.2 APAC Embedded Non-Volatile Memory Value by Countries (2013-2018)
- 6.2 APAC Embedded Non-Volatile Memory Consumption by Type
- 6.3 APAC Embedded Non-Volatile Memory Consumption by Application
- 6.4 China
- 6.5 Japan
- 6.6 Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 Key Economic Indicators of Few APAC Countries

7 EUROPE

- 7.1 Europe Embedded Non-Volatile Memory by Countries
- 7.1.1 Europe Embedded Non-Volatile Memory Consumption by Countries (2013-2018)
- 7.1.2 Europe Embedded Non-Volatile Memory Value by Countries (2013-2018)
- 7.2 Europe Embedded Non-Volatile Memory Consumption by Type
- 7.3 Europe Embedded Non-Volatile Memory Consumption by Application
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia
- 7.9 Spain
- 7.10 Key Economic Indicators of Few Europe Countries

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Embedded Non-Volatile Memory by Countries



8.1.1 Middle East & Africa Embedded Non-Volatile Memory Consumption by Countries (2013-2018)

8.1.2 Middle East & Africa Embedded Non-Volatile Memory Value by Countries (2013-2018)

- 8.2 Middle East & Africa Embedded Non-Volatile Memory Consumption by Type
- 8.3 Middle East & Africa Embedded Non-Volatile Memory Consumption by Application
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers and Impact
 - 9.1.1 Growing Demand from Key Regions
 - 9.1.2 Growing Demand from Key Applications and Potential Industries
- 9.2 Market Challenges and Impact
- 9.3 Market Trends

10 MARKETING, DISTRIBUTORS AND CUSTOMER

- 10.1 Sales Channel
 - 10.1.1 Direct Marketing
 - 10.1.2 Indirect Marketing
- 10.2 Embedded Non-Volatile Memory Distributors
- 10.3 Embedded Non-Volatile Memory Customer

11 GLOBAL EMBEDDED NON-VOLATILE MEMORY MARKET FORECAST

- 11.1 Global Embedded Non-Volatile Memory Consumption Forecast (2018-2023)
- 11.2 Global Embedded Non-Volatile Memory Forecast by Regions
- 11.2.1 Global Embedded Non-Volatile Memory Forecast by Regions (2018-2023)
- 11.2.2 Global Embedded Non-Volatile Memory Value Forecast by Regions

(2018-2023)

- 11.2.3 Americas Consumption Forecast
- 11.2.4 APAC Consumption Forecast
- 11.2.5 Europe Consumption Forecast
- 11.2.6 Middle East & Africa Consumption Forecast



- 11.3 Americas Forecast by Countries
 - 11.3.1 United States Market Forecast
- 11.3.2 Canada Market Forecast
- 11.3.3 Mexico Market Forecast
- 11.3.4 Brazil Market Forecast
- 11.4 APAC Forecast by Countries
- 11.4.1 China Market Forecast
- 11.4.2 Japan Market Forecast
- 11.4.3 Korea Market Forecast
- 11.4.4 Southeast Asia Market Forecast
- 11.4.5 India Market Forecast
- 11.4.6 Australia Market Forecast
- 11.5 Europe Forecast by Countries
- 11.5.1 Germany Market Forecast
- 11.5.2 France Market Forecast
- 11.5.3 UK Market Forecast
- 11.5.4 Italy Market Forecast
- 11.5.5 Russia Market Forecast
- 11.5.6 Spain Market Forecast
- 11.6 Middle East & Africa Forecast by Countries
- 11.6.1 Egypt Market Forecast
- 11.6.2 South Africa Market Forecast
- 11.6.3 Israel Market Forecast
- 11.6.4 Turkey Market Forecast
- 11.6.5 GCC Countries Market Forecast
- 11.7 Global Embedded Non-Volatile Memory Forecast by Type
- 11.8 Global Embedded Non-Volatile Memory Forecast by Application

12 KEY PLAYERS ANALYSIS

- 12.1 TSMC
 - 12.1.1 Company Details
 - 12.1.2 Embedded Non-Volatile Memory Product Offered
- 12.1.3 TSMC Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)
 - 12.1.4 Main Business Overview
- 12.1.5 TSMC News
- 12.2 GlobalFoundries
 - 12.2.1 Company Details



12.2.2 Embedded Non-Volatile Memory Product Offered

12.2.3 GlobalFoundries Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

12.2.4 Main Business Overview

12.2.5 GlobalFoundries News

12.3 UMC

12.3.1 Company Details

- 12.3.2 Embedded Non-Volatile Memory Product Offered
- 12.3.3 UMC Embedded Non-Volatile Memory Sales, Revenue, Price and Gross

Margin (2016-2018)

- 12.3.4 Main Business Overview
- 12.3.5 UMC News

12.4 SMIC

- 12.4.1 Company Details
- 12.4.2 Embedded Non-Volatile Memory Product Offered
- 12.4.3 SMIC Embedded Non-Volatile Memory Sales, Revenue, Price and Gross

Margin (2016-2018)

12.4.4 Main Business Overview

12.4.5 SMIC News

- 12.5 Samsung
 - 12.5.1 Company Details
 - 12.5.2 Embedded Non-Volatile Memory Product Offered
- 12.5.3 Samsung Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)
 - 12.5.4 Main Business Overview

12.5.5 Samsung News

12.6 HHGrace

12.6.1 Company Details

- 12.6.2 Embedded Non-Volatile Memory Product Offered
- 12.6.3 HHGrace Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)
 - 12.6.4 Main Business Overview

12.6.5 HHGrace News

- 12.7 TowerJazz
 - 12.7.1 Company Details
 - 12.7.2 Embedded Non-Volatile Memory Product Offered
- 12.7.3 TowerJazz Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

12.7.4 Main Business Overview



12.7.5 TowerJazz News

12.8 Microchip Technology

12.8.1 Company Details

12.8.2 Embedded Non-Volatile Memory Product Offered

12.8.3 Microchip Technology Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

12.8.4 Main Business Overview

12.8.5 Microchip Technology News

12.9 Fujitsu

12.9.1 Company Details

12.9.2 Embedded Non-Volatile Memory Product Offered

12.9.3 Fujitsu Embedded Non-Volatile Memory Sales, Revenue, Price and Gross

Margin (2016-2018)

12.9.4 Main Business Overview

12.9.5 Fujitsu News

13 RESEARCH FINDINGS AND CONCLUSION



List Of Tables

LIST OF TABLES AND FIGURES

Figure Picture of Embedded Non-Volatile Memory Table Product Specifications of Embedded Non-Volatile Memory Figure Embedded Non-Volatile Memory Report Years Considered Figure Market Research Methodology Figure Global Embedded Non-Volatile Memory Consumption Growth Rate 2013-2023 (M Units) Figure Global Embedded Non-Volatile Memory Value Growth Rate 2013-2023 (\$ Millions) Table Embedded Non-Volatile Memory Consumption CAGR by Region 2013-2023 (\$ Millions) Figure Product Picture of 200mm Fabs Table Major Players of 200mm Fabs Figure Product Picture of 300mm Fabs Table Major Players of 300mm Fabs **Figure Product Picture of Others** Table Major Players of Others Table Global Consumption Sales by Type (2013-2018) Table Global Embedded Non-Volatile Memory Consumption Market Share by Type (2013 - 2018)Figure Global Embedded Non-Volatile Memory Consumption Market Share by Type (2013 - 2018)Table Global Embedded Non-Volatile Memory Revenue by Type (2013-2018) (\$ million) Table Global Embedded Non-Volatile Memory Value Market Share by Type (2013-2018) (\$ Millions) Figure Global Embedded Non-Volatile Memory Value Market Share by Type (2013 - 2018)Table Global Embedded Non-Volatile Memory Sale Price by Type (2013-2018) Figure Embedded Non-Volatile Memory Consumed in Consumer Electronics Figure Global Embedded Non-Volatile Memory Market: Consumer Electronics (2013-2018) (M Units) Figure Global Embedded Non-Volatile Memory Market: Consumer Electronics (2013-2018) (\$ Millions) Figure Global Consumer Electronics YoY Growth (\$ Millions) Figure Embedded Non-Volatile Memory Consumed in IoT Figure Global Embedded Non-Volatile Memory Market: IoT (2013-2018) (M Units)



Figure Global Embedded Non-Volatile Memory Market: IoT (2013-2018) (\$ Millions) Figure Global IoT YoY Growth (\$ Millions)

Figure Embedded Non-Volatile Memory Consumed in Telecommunications

Figure Global Embedded Non-Volatile Memory Market: Telecommunications (2013-2018) (M Units)

Figure Global Embedded Non-Volatile Memory Market: Telecommunications (2013-2018) (\$ Millions)

Figure Global Telecommunications YoY Growth (\$ Millions)

Figure Embedded Non-Volatile Memory Consumed in Automotive

Figure Global Embedded Non-Volatile Memory Market: Automotive (2013-2018) (M Units)

Figure Global Embedded Non-Volatile Memory Market: Automotive (2013-2018) (\$ Millions)

Figure Global Automotive YoY Growth (\$ Millions)

Figure Embedded Non-Volatile Memory Consumed in Others

Figure Global Embedded Non-Volatile Memory Market: Others (2013-2018) (M Units)

Figure Global Embedded Non-Volatile Memory Market: Others (2013-2018) (\$ Millions) Figure Global Others YoY Growth (\$ Millions)

Table Global Consumption Sales by Application (2013-2018)

Table Global Embedded Non-Volatile Memory Consumption Market Share by Application (2013-2018)

Figure Global Embedded Non-Volatile Memory Consumption Market Share by Application (2013-2018)

Table Global Embedded Non-Volatile Memory Value by Application (2013-2018) Table Global Embedded Non-Volatile Memory Value Market Share by Application (2013-2018)

Figure Global Embedded Non-Volatile Memory Value Market Share by Application (2013-2018)

Table Global Embedded Non-Volatile Memory Sale Price by Application (2013-2018) Table Global Embedded Non-Volatile Memory Sales by Players (2016-2018) (M Units) Table Global Embedded Non-Volatile Memory Sales Market Share by Players (2016-2018)

Figure Global Embedded Non-Volatile Memory Sales Market Share by Players in 2016 Figure Global Embedded Non-Volatile Memory Sales Market Share by Players in 2017 Table Global Embedded Non-Volatile Memory Revenue by Players (2016-2018) (\$ Millions)

Table Global Embedded Non-Volatile Memory Revenue Market Share by Players (2016-2018)

Figure Global Embedded Non-Volatile Memory Revenue Market Share by Players in



2016

Figure Global Embedded Non-Volatile Memory Revenue Market Share by Players in 2017

Table Global Embedded Non-Volatile Memory Sale Price by Players (2016-2018)

Figure Global Embedded Non-Volatile Memory Sale Price by Players in 2017

Table Global Embedded Non-Volatile Memory Manufacturing Base Distribution and Sales Area by Players

Table Players Embedded Non-Volatile Memory Products Offered

Table Embedded Non-Volatile Memory Concentration Ratio (CR3, CR5 and CR10) (2016-2018)

Table Global Embedded Non-Volatile Memory Consumption by Regions 2013-2018 (M Units)

Table Global Embedded Non-Volatile Memory Consumption Market Share by Regions2013-2018

Figure Global Embedded Non-Volatile Memory Consumption Market Share by Regions 2013-2018

Table Global Embedded Non-Volatile Memory Value by Regions 2013-2018 (\$ Millions) Table Global Embedded Non-Volatile Memory Value Market Share by Regions 2013-2018

Figure Global Embedded Non-Volatile Memory Value Market Share by Regions 2013-2018

Figure Americas Embedded Non-Volatile Memory Consumption 2013-2018 (M Units) Figure Americas Embedded Non-Volatile Memory Value 2013-2018 (\$ Millions)

Figure APAC Embedded Non-Volatile Memory Consumption 2013-2018 (M Units)

Figure APAC Embedded Non-Volatile Memory Value 2013-2018 (\$ Millions)

Figure Europe Embedded Non-Volatile Memory Consumption 2013-2018 (M Units)

Figure Europe Embedded Non-Volatile Memory Value 2013-2018 (\$ Millions)

Figure Middle East & Africa Embedded Non-Volatile Memory Consumption 2013-2018 (M Units)

Figure Middle East & Africa Embedded Non-Volatile Memory Value 2013-2018 (\$ Millions)

Table Americas Embedded Non-Volatile Memory Consumption by Countries (2013-2018) (M Units)

Table Americas Embedded Non-Volatile Memory Consumption Market Share by Countries (2013-2018)

Figure Americas Embedded Non-Volatile Memory Consumption Market Share by Countries in 2017

Table Americas Embedded Non-Volatile Memory Value by Countries (2013-2018) (\$ Millions)



Table Americas Embedded Non-Volatile Memory Value Market Share by Countries (2013-2018)

Figure Americas Embedded Non-Volatile Memory Value Market Share by Countries in 2017

Table Americas Embedded Non-Volatile Memory Consumption by Type (2013-2018) (M Units)

Table Americas Embedded Non-Volatile Memory Consumption Market Share by Type (2013-2018)

Figure Americas Embedded Non-Volatile Memory Consumption Market Share by Type in 2017

Table Americas Embedded Non-Volatile Memory Consumption by Application (2013-2018) (M Units)

Table Americas Embedded Non-Volatile Memory Consumption Market Share by Application (2013-2018)

Figure Americas Embedded Non-Volatile Memory Consumption Market Share by Application in 2017

Figure United States Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure United States Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Figure Canada Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Canada Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure Mexico Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Mexico Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Table APAC Embedded Non-Volatile Memory Consumption by Countries (2013-2018) (M Units)

Table APAC Embedded Non-Volatile Memory Consumption Market Share by Countries (2013-2018)

Figure APAC Embedded Non-Volatile Memory Consumption Market Share by Countries in 2017

Table APAC Embedded Non-Volatile Memory Value by Countries (2013-2018) (\$ Millions)

Table APAC Embedded Non-Volatile Memory Value Market Share by Countries (2013-2018)

Figure APAC Embedded Non-Volatile Memory Value Market Share by Countries in 2017

Table APAC Embedded Non-Volatile Memory Consumption by Type (2013-2018) (M



Units)

Table APAC Embedded Non-Volatile Memory Consumption Market Share by Type (2013-2018)

Figure APAC Embedded Non-Volatile Memory Consumption Market Share by Type in 2017

Table APAC Embedded Non-Volatile Memory Consumption by Application (2013-2018) (M Units)

Table APAC Embedded Non-Volatile Memory Consumption Market Share by Application (2013-2018)

Figure APAC Embedded Non-Volatile Memory Consumption Market Share by Application in 2017

Figure China Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure China Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure Japan Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Japan Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure Korea Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Korea Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure Southeast Asia Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Southeast Asia Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Figure India Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure India Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure Australia Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Australia Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Table Europe Embedded Non-Volatile Memory Consumption by Countries (2013-2018) (M Units)

Table Europe Embedded Non-Volatile Memory Consumption Market Share by Countries (2013-2018)

Figure Europe Embedded Non-Volatile Memory Consumption Market Share by Countries in 2017

Table Europe Embedded Non-Volatile Memory Value by Countries (2013-2018) (\$ Millions)

Table Europe Embedded Non-Volatile Memory Value Market Share by Countries



(2013-2018)

Figure Europe Embedded Non-Volatile Memory Value Market Share by Countries in 2017

Table Europe Embedded Non-Volatile Memory Consumption by Type (2013-2018) (M Units)

Table Europe Embedded Non-Volatile Memory Consumption Market Share by Type (2013-2018)

Figure Europe Embedded Non-Volatile Memory Consumption Market Share by Type in 2017

Table Europe Embedded Non-Volatile Memory Consumption by Application (2013-2018) (M Units)

Table Europe Embedded Non-Volatile Memory Consumption Market Share by Application (2013-2018)

Figure Europe Embedded Non-Volatile Memory Consumption Market Share by Application in 2017

Figure Germany Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Germany Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure France Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure France Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure UK Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units) Figure UK Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Figure Italy Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Italy Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Figure Russia Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Russia Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure Spain Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Spain Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Table Middle East & Africa Embedded Non-Volatile Memory Consumption by Countries (2013-2018) (M Units)

Table Middle East & Africa Embedded Non-Volatile Memory Consumption Market Share by Countries (2013-2018)

Figure Middle East & Africa Embedded Non-Volatile Memory Consumption Market Share by Countries in 2017

Table Middle East & Africa Embedded Non-Volatile Memory Value by Countries (2013-2018) (\$ Millions)



Table Middle East & Africa Embedded Non-Volatile Memory Value Market Share by Countries (2013-2018)

Figure Middle East & Africa Embedded Non-Volatile Memory Value Market Share by Countries in 2017

Table Middle East & Africa Embedded Non-Volatile Memory Consumption by Type (2013-2018) (M Units)

Table Middle East & Africa Embedded Non-Volatile Memory Consumption Market Share by Type (2013-2018)

Figure Middle East & Africa Embedded Non-Volatile Memory Consumption Market Share by Type in 2017

Table Middle East & Africa Embedded Non-Volatile Memory Consumption by Application (2013-2018) (M Units)

Table Middle East & Africa Embedded Non-Volatile Memory Consumption Market Share by Application (2013-2018)

Figure Middle East & Africa Embedded Non-Volatile Memory Consumption Market Share by Application in 2017

Figure Egypt Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Egypt Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Figure South Africa Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure South Africa Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Figure Israel Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Israel Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Figure Turkey Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure Turkey Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions) Figure GCC Countries Embedded Non-Volatile Memory Consumption Growth 2013-2018 (M Units)

Figure GCC Countries Embedded Non-Volatile Memory Value Growth 2013-2018 (\$ Millions)

Table Embedded Non-Volatile Memory Distributors List

Table Embedded Non-Volatile Memory Customer List

Figure Global Embedded Non-Volatile Memory Consumption Growth Rate Forecast (2018-2023) (M Units)

Figure Global Embedded Non-Volatile Memory Value Growth Rate Forecast (2018-2023) (\$ Millions)



Table Global Embedded Non-Volatile Memory Consumption Forecast by Countries (2018-2023) (M Units)

Table Global Embedded Non-Volatile Memory Consumption Market Forecast by Regions

Table Global Embedded Non-Volatile Memory Value Forecast by Countries (2018-2023) (\$ Millions)

Table Global Embedded Non-Volatile Memory Value Market Share Forecast by Regions Figure Americas Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Americas Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure APAC Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure APAC Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Europe Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Europe Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Europe Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Europe Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Europe Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Middle East & Africa Embedded Non-Volatile Memory Consumption 2018-2023 (\$ Millions)

Figure Middle East & Africa Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions)

Figure United States Embedded Non-Volatile Memory Consumption 2018-2023 (M Units)

Figure United States Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Canada Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Canada Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Mexico Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Brazil Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Brazil Embedded Non-Volatile Memory Value 2018-2023 (M Units) Figure Brazil Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure China Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure China Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure China Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Japan Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Japan Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Japan Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Southeast Asia Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Southeast Asia Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Southeast Asia Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions)

Figure Southeast Asia Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure India Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure India Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Australia Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Australia Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions)



Figure Germany Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Germany Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure France Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure France Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure UK Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure UK Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Italy Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Italy Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Russia Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Russia Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Spain Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Spain Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Egypt Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Egypt Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure South Africa Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure South Africa Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Israel Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Israel Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure Turkey Embedded Non-Volatile Memory Consumption 2018-2023 (M Units) Figure Turkey Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Figure GCC Countries Embedded Non-Volatile Memory Consumption 2018-2023 (M Units)

Figure GCC Countries Embedded Non-Volatile Memory Value 2018-2023 (\$ Millions) Table Global Embedded Non-Volatile Memory Consumption Forecast by Type (2018-2023) (M Units)

Table Global Embedded Non-Volatile Memory Consumption Market Share Forecast by Type (2018-2023)

Table Global Embedded Non-Volatile Memory Value Forecast by Type (2018-2023) (\$ Millions)

Table Global Embedded Non-Volatile Memory Value Market Share Forecast by Type (2018-2023)

Table Global Embedded Non-Volatile Memory Consumption Forecast by Application (2018-2023) (M Units)

Table Global Embedded Non-Volatile Memory Consumption Market Share Forecast by Application (2018-2023)

Table Global Embedded Non-Volatile Memory Value Forecast by Application (2018-2023) (\$ Millions)

Table Global Embedded Non-Volatile Memory Value Market Share Forecast by Application (2018-2023)



Table TSMC Basic Information, Manufacturing Base, Sales Area and Its Competitors Table TSMC Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

Figure TSMC Embedded Non-Volatile Memory Market Share (2016-2018)

Table GlobalFoundries Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table GlobalFoundries Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

Figure GlobalFoundries Embedded Non-Volatile Memory Market Share (2016-2018) Table UMC Basic Information, Manufacturing Base, Sales Area and Its Competitors Table UMC Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

Figure UMC Embedded Non-Volatile Memory Market Share (2016-2018)

Table SMIC Basic Information, Manufacturing Base, Sales Area and Its Competitors Table SMIC Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

Figure SMIC Embedded Non-Volatile Memory Market Share (2016-2018)

Table Samsung Basic Information, Manufacturing Base, Sales Area and Its Competitors Table Samsung Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Samsung Embedded Non-Volatile Memory Market Share (2016-2018) Table HHGrace Basic Information, Manufacturing Base, Sales Area and Its Competitors Table HHGrace Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

Figure HHGrace Embedded Non-Volatile Memory Market Share (2016-2018) Table TowerJazz Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table TowerJazz Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

Figure TowerJazz Embedded Non-Volatile Memory Market Share (2016-2018)

Table Microchip Technology Basic Information, Manufacturing Base, Sales Area and Its Competitors

Table Microchip Technology Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)

Figure Microchip Technology Embedded Non-Volatile Memory Market Share (2016-2018)

Table Fujitsu Basic Information, Manufacturing Base, Sales Area and Its Competitors Table Fujitsu Embedded Non-Volatile Memory Sales, Revenue, Price and Gross Margin (2016-2018)



Figure Fujitsu Embedded Non-Volatile Memory Market Share (2016-2018)



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