

# **Europe Memristors Market Size study, by Application (Non-volatile Memory, Neuromorphic and Biological System, Programmable Logic and Signal Processing) by End-user Industry (Consumer Electronics, IT and Telecom, Automotive, Healthcare, Other End-user Industries) and Country Forecasts 2022-2032**

<https://marketpublishers.com/r/E9DFB785E425EN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: E9DFB785E425EN

## **Abstracts**

Europe Memristors Market is valued approximately at USD 48 million in 2023 and is anticipated to grow with a healthy growth rate of more than 50.82% over the forecast period 2024-2032. Memristor is a two-terminal electronic component that can control the flow of electrical current in a circuit based on the history of voltage applied across it. Similar to standard passive components like resistors, capacitors, and inductors, memristors have the unique property of "remembering" the amount of charge that has previously passed through them by adjusting their resistance correspondingly. Therefore, memristors may gain information from past events, which could make them valuable in a variety of electronics and computing applications. The key trend of Memristors Market in Europe is rising demand for non-volatile memory solutions. The memristors offer promising capabilities in non-volatile memory applications, including storage and computing. In Europe, the demand for non-volatile memory solutions has been increasing, driven by various sectors such as automotive, aerospace, and consumer electronics.

Moreover, Europe has been witnessing a surge in the adoption of Internet of Things (IoT) devices across various industries, including healthcare, automotive, and manufacturing. Memristors offer advantages such as low power consumption and non-volatility, making them suitable for IoT applications, thereby driving their demand in the region. Also, Europe has a robust research and development ecosystem, with

significant investments being made in emerging technologies. Research institutions, universities, and companies in Europe are actively engaged in advancing memristor technology, leading to innovations and breakthroughs that drive market growth. However, high initial investment and competition from established technologies are projected to stifle market growth over the projection period 2024-2032.

The key countries considered for the Europe Memristors market study includes UK, Germany, France, Italy, Spain, and Rest of Europe. In 2023, Germany was the dominating region market. The proliferation of IoT devices across industries requires efficient and reliable memory solutions. Memristors offer advantages such as non-volatility, scalability, and low energy consumption, making them suitable for IoT applications. As Germany continues to embrace IoT technologies, the demand for memristors is expected to increase. Also, with the increasing demand for high-performance computing solutions in various sectors such as automotive, aerospace, and healthcare, there is a growing need for memory technologies that offer high density, low power consumption, and fast access times. Memristors meet these requirements, driving their adoption in the German HPC market. Whereas, the United Kingdom is expected to grow as the fastest growing region with the highest CAGR during the forecast period 2024-2032.

Major market player included in this report are:

Forschungszentrum Jülich

IBM Research Zurich

Company 3

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Application

Non-volatile Memory

Neuromorphic and Biological System

Programmable Logic and Signal Processing

By End-user Industry  
Consumer Electronics  
IT and Telecom  
Automotive  
Healthcare  
Other End-user Industries  
By Region:  
Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

## Contents

### **CHAPTER 1. EUROPE MEMRISTORS MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 1.1. Research Objective
- 1.2. Market Definition
- 1.3. Research Assumptions
  - 1.3.1. Inclusion & Exclusion
  - 1.3.2. Limitations
  - 1.3.3. Supply Side Analysis
    - 1.3.3.1. Availability
    - 1.3.3.2. Infrastructure
    - 1.3.3.3. Regulatory Environment
    - 1.3.3.4. Market Competition
    - 1.3.3.5. Economic Viability (Consumer's Perspective)
  - 1.3.4. Demand Side Analysis
    - 1.3.4.1. Regulatory frameworks
    - 1.3.4.2. Technological Advancements
    - 1.3.4.3. Environmental Considerations
    - 1.3.4.4. Consumer Awareness & Acceptance
- 1.4. Estimation Methodology
- 1.5. Years Considered for the Study
- 1.6. Currency Conversion Rates

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. Europe Memristors Market Size & Forecast (2022- 2032)
- 2.2. Regional Summary
- 2.3. Segmental Summary
  - 2.3.1. By Application
  - 2.3.2. By End-user Industry
- 2.4. Key Trends
- 2.5. Recession Impact
- 2.6. Analyst Recommendation & Conclusion

### **CHAPTER 3. EUROPE MEMRISTORS MARKET DYNAMICS**

- 3.1. Market Drivers

- 3.2. Market Challenges
- 3.3. Market Opportunities

## **CHAPTER 4. EUROPE MEMRISTORS MARKET: INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model
  - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
  - 4.2.1. Political
  - 4.2.2. Economic
  - 4.2.3. Social
  - 4.2.4. Technological
  - 4.2.5. Environmental
  - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. EUROPE MEMRISTORS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

- 5.1. Non-volatile Memory
- 5.2. Neuromorphic and Biological System
- 5.3. Programmable Logic and Signal Processing

## **CHAPTER 6. EUROPE MEMRISTORS MARKET SIZE & FORECASTS BY END-USER INDUSTRY 2022-2032**

- 6.1. Consumer Electronics
- 6.2. IT and Telecom
- 6.3. Automotive

6.4. Healthcare

6.5. Other End-user Industries

## **CHAPTER 7. EUROPE MEMRISTORS MARKET SIZE & FORECASTS BY COUNTRY 2022-2032**

7.1. U.K. Memristors Market

7.1.1. Application breakdown size & forecasts, 2022-2032

7.1.2. End-user Industry breakdown size & forecasts, 2022-2032

7.2. Germany Memristors Market

7.3. France Memristors Market

7.4. Spain Memristors Market

7.5. Italy Memristors Market

7.6. Rest of Europe Memristors Market

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

8.1. Key Company SWOT Analysis

8.1.1. Company

8.1.2. Company

8.1.3. Company

8.2. Top Market Strategies

8.3. Company Profiles

8.3.1. Forschungszentrum Jülich

8.3.1.1. Key Information

8.3.1.2. Overview

8.3.1.3. Financial (Subject to Data Availability)

8.3.1.4. Product Summary

8.3.1.5. Market Strategies

8.3.2. IBM Research Zurich

8.3.3. Company

8.3.4. Company

8.3.5. Company

8.3.6. Company

8.3.7. Company

8.3.8. Company

8.3.9. Company

8.3.10. Company

## **CHAPTER 9. RESEARCH PROCESS**

### 9.1. Research Process

#### 9.1.1. Data Mining

#### 9.1.2. Analysis

#### 9.1.3. Market Estimation

#### 9.1.4. Validation

#### 9.1.5. Publishing

### 9.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Europe Memristors market, report scope

TABLE 2. Europe Memristors market estimates & forecasts by Country 2022-2032 (USD Million)

TABLE 3. Europe Memristors market estimates & forecasts by Application 2022-2032 (USD Million)

TABLE 4. Europe Memristors market estimates & forecasts by End-user Industry 2022-2032 (USD Million)

TABLE 5. Europe Memristors market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 6. Europe Memristors market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 7. Europe Memristors market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 8. Europe Memristors market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 9. Europe Memristors market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 10. Europe Memristors market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 11. Europe Memristors market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 12. Europe Memristors market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 13. Europe Memristors market by segment, estimates & forecasts, 2022-2032 (USD Million) Europe Memristors market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 14. UK Memristors market estimates & forecasts, 2022-2032 (USD Million)

TABLE 15. UK Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 16. UK Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 17. Germany Memristors market estimates & forecasts, 2022-2032 (USD Million)

TABLE 18. Germany Memristors market estimates & forecasts by segment 2022-2032 (USD Million)



TABLE 19. Germany Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 20. France Memristors market estimates & forecasts, 2022-2032 (USD Million)

TABLE 21. France Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 22. France Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 23. Italy Memristors market estimates & forecasts, 2022-2032 (USD Million)

TABLE 24. Italy Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 25. Italy Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 26. Spain Memristors market estimates & forecasts, 2022-2032 (USD Million)

TABLE 27. Spain Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 28. Spain Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 29. RoE Memristors market estimates & forecasts, 2022-2032 (USD Million)

TABLE 30. RoE Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 31. RoE Memristors market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 32. List of secondary sources, used in the study of Europe Memristors Market.

TABLE 33. List of primary sources, used in the study of Europe Memristors Market.

TABLE 34. Years considered for the study.

TABLE 35. Exchange rates considered.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Europe Memristors market, research methodology
- FIG 2. Europe Memristors market, market estimation techniques
- FIG 3. Europe market size estimates & forecast methods.
- FIG 4. Europe Memristors market, key trends 2023
- FIG 5. Europe Memristors market, growth prospects 2022-2032
- FIG 6. Europe Memristors market, porters 5 force model
- FIG 7. Europe Memristors market, pestel analysis
- FIG 8. Europe Memristors market, value chain analysis
- FIG 9. Europe Memristors market by segment, 2022 & 2032 (USD Million)
- FIG 10. Europe Memristors market by segment, 2022 & 2032 (USD Million)
- FIG 11. Europe Memristors market by segment, 2022 & 2032 (USD Million)
- FIG 12. Europe Memristors market by segment, 2022 & 2032 (USD Million)
- FIG 13. Europe Memristors market by segment, 2022 & 2032 (USD Million)
- FIG 14. Europe Memristors market, Country snapshot 2022 & 2032
- FIG 15. Europe Memristors market 2022 & 2032 (USD Million)
- FIG 16. Europe Memristors market, company market share analysis (2023)

## I would like to order

Product name: Europe Memristors Market Size study, by Application (Non-volatile Memory, Neuromorphic and Biological System, Programmable Logic and Signal Processing) by End-user Industry (Consumer Electronics, IT and Telecom, Automotive, Healthcare, Other End-user Industries) and Country Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/E9DFB785E425EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/E9DFB785E425EN.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**

Customer 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  
and fax the completed form to +44 20 7900 3970