

Global Microelectromechanical Systems Market Size study & Forecast, by Type (Sensors, Actuators) By Application (Consumer Electronics, Automotive, Industrial, Aerospace and Defense, Healthcare, Telecommunication, Others) and Regional Analysis, 2023-2030

https://marketpublishers.com/r/G157B3A61C4DEN.html

Date: October 2023

Pages: 200

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

ID: G157B3A61C4DEN

Abstracts

Global Microelectromechanical Systems Market is valued at approximately USD 83.18 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 8.7% over the forecast period 2023-2030. Microelectromechanical Systems are miniaturized devices that integrate mechanical elements, sensors, actuators, and electronics on a single chip. MEMS technology combines microfabrication techniques with semiconductor processing to create devices with dimensions ranging from micrometers to millimeters. The Microelectromechanical Systems market is expanding because of factors such as rising adoption of smartphones and increasing popularity of the Internet of Things. Microelectromechanical Systems are designed to sense physical phenomena, such as acceleration, pressure, temperature, or humidity. They can also actuate or manipulate these phenomena by converting electrical signals into mechanical motion. Its importance has progressively increased during the forecast period 2023-2030.

According to Statista, the global note years of smartphone users is expected to increase by 910.3 million around 17.33 percent in between year 2023 to 2028. The smartphone user base is expected to reach up to 6.2 billion users by 2028. Furthermore, North America holds the highest smartphone adoption rate in 2022, accounting for about 84% of total mobile connections and smartphone adoption rate is projected to reach up to 90% by 2030 in the region. Another important factor that drives the



Microelectromechanical Systems market is the increasing popularity of the Internet of Things. As Microelectromechanical Systems devices play a crucial role in the IoT ecosystem by providing sensing and actuation capabilities such as accelerometers, gyroscopes, temperature and pressure sensors, can collect real-time data from the surrounding environment. These sensors enable IoT devices to monitor physical parameters, such as motion, orientation, temperature, and environmental conditions. In addition, as per Statista, the global number of Internet of Things devices is expected to grow from 13.14 billion in 2022 to more than 29 billion by 2030. China will have the most IoT devices in 2030, with roughly 5 billion consumer devices. Moreover, growing demand of wearable devices and rising demand microelectromechanical systems in the automation industry is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, lack of standardization in fabrication process stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Microelectromechanical Systems Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the increasing number of smartphone users and growing adoption of 5G technology. In addition, Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising government initiatives for healthcare equipment and devices in the region.

Major market player included in this report are:

Analog Devices Inc

Robert Bosch GmbH

Broadcom Inc

Knowles Electronics, LLC

STMicroelectronics

HP Development Company, L.P

Denso Corporation

NXP Semiconductors



Texas Instruments Inc

Panasonic Corporation

Recent Developments in the Market:

In February 2022, Bosch GmbH invested around \$296 million in new manufacturing facilities as part of an expansion of its wafer fab in Reutlingen, Germany. Bosch has already committed \$463 million to expand its wafer fabs in Dresden and Reutlingen, as well as to create a new semiconductor testing centre in Penang, Malaysia. The new investment will generate more production space as well as the requisite clean-room facilities. This expansion will help in meeting the increasing demand for chips used in mobility and IoT applications.

Global Microelectromechanical Systems Market Report Scope:

Historical Data - 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries



involved in the study.

Europe

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

Ву Туре	
Sensors	
Actuators	
By Application	
Consumer Electronics	
Automotive	
Industrial	
Aerospace and Defense	
Healthcare	
Telecommunication	
Others	
By Region:	
North America	
U.S.	
Canada	



UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Middle East & Africa
Saudi Arabia

South Africa



Rest of Middle East & Africa



Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Microelectromechanical Systems Market, by Region, 2020-2030 (USD Billion)
- 1.2.2. Microelectromechanical Systems Market, by Type, 2020-2030 (USD Billion)
- 1.2.3. Microelectromechanical Systems Market, by Application, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL MICROELECTROMECHANICAL SYSTEMS MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL MICROELECTROMECHANICAL SYSTEMS MARKET DYNAMICS

- 3.1. Microelectromechanical Systems Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising adoption of smartphones
 - 3.1.1.2. Increasing popularity of the Internet of Things
 - 3.1.2. Market Challenges
 - 3.1.2.1. Lack of standardized in fabrication process.
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Growing demand of wearable devices
 - 3.1.3.2. Rising demand microelectromechanical systems in the automation industry

CHAPTER 4. GLOBAL MICROELECTROMECHANICAL SYSTEMS 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
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
- 4.3.2. Economical
- 4.3.3. Social
- 4.3.4. Technological
- 4.3.5. Environmental
- 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL MICROELECTROMECHANICAL SYSTEMS MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Microelectromechanical Systems Market by Type, Performance Potential Analysis
- 5.3. Global Microelectromechanical Systems Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Microelectromechanical Systems Market, Sub Segment Analysis
 - 5.4.1. Sensors
 - 5.4.2. Actuators

CHAPTER 6. GLOBAL MICROELECTROMECHANICAL SYSTEMS MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Microelectromechanical Systems Market by Application, Performance -



Potential Analysis

- 6.3. Global Microelectromechanical Systems Market Estimates & Forecasts by Application 2020-2030 (USD Billion)
- 6.4. Microelectromechanical Systems Market, Sub Segment Analysis
 - 6.4.1. Consumer Electronics
 - 6.4.2. Automotive
 - 6.4.3. Industrial
 - 6.4.4. Aerospace and Defense
 - 6.4.5. Healthcare
 - 6.4.6. Telecommunication
 - 6.4.7. Others

CHAPTER 7. GLOBAL MICROELECTROMECHANICAL SYSTEMS MARKET, REGIONAL ANALYSIS

- 7.1. Top Leading Countries
- 7.2. Top Emerging Countries
- 7.3. Microelectromechanical Systems Market, Regional Market Snapshot
- 7.4. North America Microelectromechanical Systems Market
 - 7.4.1. U.S. Microelectromechanical Systems Market
 - 7.4.1.1. Type breakdown estimates & forecasts, 2020-2030
 - 7.4.1.2. Application breakdown estimates & forecasts, 2020-2030
 - 7.4.2. Canada Microelectromechanical Systems Market
- 7.5. Europe Microelectromechanical Systems Market Snapshot
 - 7.5.1. U.K. Microelectromechanical Systems Market
 - 7.5.2. Germany Microelectromechanical Systems Market
 - 7.5.3. France Microelectromechanical Systems Market
 - 7.5.4. Spain Microelectromechanical Systems Market
 - 7.5.5. Italy Microelectromechanical Systems Market
- 7.5.6. Rest of Europe Microelectromechanical Systems Market
- 7.6. Asia-Pacific Microelectromechanical Systems Market Snapshot
 - 7.6.1. China Microelectromechanical Systems Market
 - 7.6.2. India Microelectromechanical Systems Market
 - 7.6.3. Japan Microelectromechanical Systems Market
 - 7.6.4. Australia Microelectromechanical Systems Market
 - 7.6.5. South Korea Microelectromechanical Systems Market
 - 7.6.6. Rest of Asia Pacific Microelectromechanical Systems Market
- 7.7. Latin America Microelectromechanical Systems Market Snapshot
 - 7.7.1. Brazil Microelectromechanical Systems Market



- 7.7.2. Mexico Microelectromechanical Systems Market
- 7.8. Middle East & Africa Microelectromechanical Systems Market
 - 7.8.1. Saudi Arabia Microelectromechanical Systems Market
 - 7.8.2. South Africa Microelectromechanical Systems Market
 - 7.8.3. Rest of Middle East & Africa Microelectromechanical Systems 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. Analog Devices Inc
 - 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. Recent Developments
 - 8.3.2. Robert Bosch GmbH
 - 8.3.3. Broadcom Inc
 - 8.3.4. Knowles Electronics, LLC
 - 8.3.5. STMicroelectronics
 - 8.3.6. HP Development Company, L.P.
 - 8.3.7. Denso Corporation
 - 8.3.8. NXP Semiconductors
 - 8.3.9. Texas Instruments Inc
 - 8.3.10. Panasonic Corporation

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



9.3. Research Assumption

List of Tables

- TABLE 1. Global Microelectromechanical Systems Market, report scope
- TABLE 2. Global Microelectromechanical Systems Market estimates & forecasts by Region 2020-2030 (USD Billion)
- TABLE 3. Global Microelectromechanical Systems Market estimates & forecasts by Type 2020-2030 (USD Billion)
- TABLE 4. Global Microelectromechanical Systems Market estimates & forecasts by Application 2020-2030 (USD Billion)
- TABLE 5. Global Microelectromechanical Systems Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 6. Global Microelectromechanical Systems Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 7. Global Microelectromechanical Systems Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 8. Global Microelectromechanical Systems Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 9. Global Microelectromechanical Systems Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 10. Global Microelectromechanical Systems Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 11. Global Microelectromechanical Systems Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 12. Global Microelectromechanical Systems Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 13. Global Microelectromechanical Systems Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 14. Global Microelectromechanical Systems Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 15. U.S. Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 16. U.S. Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 17. U.S. Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 18. Canada Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 19. Canada Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)



- TABLE 20. Canada Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 21. UK Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 22. UK Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 23. UK Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 24. Germany Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 25. Germany Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 26. Germany Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 27. France Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 28. France Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 29. France Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 30. Italy Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 31. Italy Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 32. Italy Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 33. Spain Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 34. Spain Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 35. Spain Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 36. RoE Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 37. RoE Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 38. RoE Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)
- TABLE 39. China Microelectromechanical Systems Market estimates & forecasts,



2020-2030 (USD Billion)

TABLE 40. China Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. India Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)



TABLE 59. Brazil Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Mexico Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Mexico Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Mexico Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. RoLA Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 64. RoLA Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. RoLA Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Microelectromechanical Systems Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 67. South Africa Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. RoMEA Microelectromechanical Systems Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global

Microelectromechanical Systems Market

TABLE 70. List of primary sources, used in the study of global Microelectromechanical Systems Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List of figures

FIG 1. Global Microelectromechanical Systems Market, research methodology

FIG 2. Global Microelectromechanical Systems Market, Market estimation techniques

FIG 3. Global Market size estimates & forecast methods

FIG 4. Global Microelectromechanical Systems Market, key trends 2022

FIG 5. Global Microelectromechanical Systems Market, growth prospects 2023-2030

FIG 6. Global Microelectromechanical Systems Market, porters 5 force model

FIG 7. Global Microelectromechanical Systems Market, pest analysis

FIG 8. Global Microelectromechanical Systems Market, value chain analysis

FIG 9. Global Microelectromechanical Systems Market by segment, 2020 & 2030 (USD Billion)



- FIG 10. Global Microelectromechanical Systems Market by segment, 2020 & 2030 (USD Billion)
- FIG 11. Global Microelectromechanical Systems Market by segment, 2020 & 2030 (USD Billion)
- FIG 12. Global Microelectromechanical Systems Market by segment, 2020 & 2030 (USD Billion)
- FIG 13. Global Microelectromechanical Systems Market by segment, 2020 & 2030 (USD Billion)
- FIG 14. Global Microelectromechanical Systems Market, regional snapshot 2020 & 2030
- FIG 15. North America Microelectromechanical Systems Market 2020 & 2030 (USD Billion)
- FIG 16. Europe Microelectromechanical Systems Market 2020 & 2030 (USD Billion)
- FIG 17. Asia pacific Microelectromechanical Systems Market 2020 & 2030 (USD Billion)
- FIG 18. Latin America Microelectromechanical Systems Market 2020 & 2030 (USD Billion)
- FIG 19. Middle East & Africa Microelectromechanical Systems Market 2020 & 2030 (USD Billion)
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