

# Global Automotive-qualified MEMS Microphone Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Automotive-qualified MEMS Microphone market size was valued at US\$ 494 million in 2025 and is forecast to a readjusted size of US\$ 885 million by 2032 with a CAGR of 8.8% during review period.

Automotive-qualified MEMS Microphones are vehicle-grade acoustic components designed for stable voice capture under wide-temperature, high-vibration, and complex electromagnetic conditions. They feature high noise immunity and long-term reliability. In 2024, production totaled 800 million units with an average price of USD 0.55 per unit. A typical single production line provides an annual capacity of 2 million units, and the average gross margin is around 35%. The upstream sector relies on silicon wafers and thin-film deposition materials such as silicon nitride and silicon oxide, supplied by companies including SUMCO, GlobalWafers, and Shin-Etsu. The midstream involves module packaging and durability processes, acoustic calibration, firmware integration, and vehicle-grade certification testing. Downstream customers include commercial and passenger vehicle manufacturers such as Tesla, Volkswagen, Toyota, BYD, and SAIC Motor.

The market outlook for Automotive-qualified MEMS Microphones is supported by the accelerating adoption of in-vehicle voice interaction, the shift toward cockpit intelligence, and the rapid penetration of advanced driver assistance systems. As automotive OEMs enhance cabin acoustics, expand multi-microphone arrays, and push for higher reliability under harsh operating conditions, demand for vehicle-grade MEMS microphones is expected to continue rising. Growth will be further driven by the transition to software-defined vehicles, which require high-fidelity acoustic sensing for

voice control, cabin monitoring, and safety-related perception. Suppliers capable of delivering low-noise performance, long-term stability, and robust automotive qualification will benefit from increasing integration value in next-generation cockpits.

This report is a detailed and comprehensive analysis for global Automotive-qualified MEMS Microphone market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Automotive-qualified MEMS Microphone market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-qualified MEMS Microphone market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-qualified MEMS Microphone market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-qualified MEMS Microphone market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive-qualified MEMS Microphone

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive-qualified MEMS Microphone market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Knowles, Gorertek, AAC, BSE, STMicroelectronics, TDK, Hosiden, Analog Devices, Bosch, Memsensing Microsystems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Automotive-qualified MEMS Microphone market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Analog Microphone

Digital Microphone

### Market segment by Interface

I2S Interface

PDM Interface

Others

### Market segment by Packaging

SMD

LGA

Others

#### Market segment by Application

Commercial Vehicle

Passenger Vehicle

#### Major players covered

Knowles

Gorertek

AAC

BSE

STMicroelectronics

TDK

Hosiden

Analog Devices

Bosch

Memsensing Microsystems

#### Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Automotive-qualified MEMS Microphone product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive-qualified MEMS Microphone, with price, sales quantity, revenue, and global market share of Automotive-qualified MEMS Microphone from 2021 to 2026.

Chapter 3, the Automotive-qualified MEMS Microphone competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive-qualified MEMS Microphone breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive-qualified MEMS Microphone market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive-qualified MEMS Microphone.

Chapter 14 and 15, to describe Automotive-qualified MEMS Microphone sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Automotive-qualified MEMS Microphone Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Analog Microphone

1.3.3 Digital Microphone

1.4 Market Analysis by Interface

1.4.1 Overview: Global Automotive-qualified MEMS Microphone Consumption Value by Interface: 2021 Versus 2025 Versus 2032

1.4.2 I2S Interface

1.4.3 PDM Interface

1.4.4 Others

1.5 Market Analysis by Packaging

1.5.1 Overview: Global Automotive-qualified MEMS Microphone Consumption Value by Packaging: 2021 Versus 2025 Versus 2032

1.5.2 SMD

1.5.3 LGA

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Automotive-qualified MEMS Microphone Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Commercial Vehicle

1.6.3 Passenger Vehicle

1.7 Global Automotive-qualified MEMS Microphone Market Size & Forecast

1.7.1 Global Automotive-qualified MEMS Microphone Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Automotive-qualified MEMS Microphone Sales Quantity (2021-2032)

1.7.3 Global Automotive-qualified MEMS Microphone Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 Knowles

2.1.1 Knowles Details

2.1.2 Knowles Major Business

- 2.1.3 Knowles Automotive-qualified MEMS Microphone Product and Services
- 2.1.4 Knowles Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Knowles Recent Developments/Updates
- 2.2 Gorertek
  - 2.2.1 Gorertek Details
  - 2.2.2 Gorertek Major Business
  - 2.2.3 Gorertek Automotive-qualified MEMS Microphone Product and Services
  - 2.2.4 Gorertek Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 Gorertek Recent Developments/Updates
- 2.3 AAC
  - 2.3.1 AAC Details
  - 2.3.2 AAC Major Business
  - 2.3.3 AAC Automotive-qualified MEMS Microphone Product and Services
  - 2.3.4 AAC Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 AAC Recent Developments/Updates
- 2.4 BSE
  - 2.4.1 BSE Details
  - 2.4.2 BSE Major Business
  - 2.4.3 BSE Automotive-qualified MEMS Microphone Product and Services
  - 2.4.4 BSE Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 BSE Recent Developments/Updates
- 2.5 STMicroelectronics
  - 2.5.1 STMicroelectronics Details
  - 2.5.2 STMicroelectronics Major Business
  - 2.5.3 STMicroelectronics Automotive-qualified MEMS Microphone Product and Services
  - 2.5.4 STMicroelectronics Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 STMicroelectronics Recent Developments/Updates
- 2.6 TDK
  - 2.6.1 TDK Details
  - 2.6.2 TDK Major Business
  - 2.6.3 TDK Automotive-qualified MEMS Microphone Product and Services
  - 2.6.4 TDK Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.6.5 TDK Recent Developments/Updates
- 2.7 Hosiden
  - 2.7.1 Hosiden Details
  - 2.7.2 Hosiden Major Business
  - 2.7.3 Hosiden Automotive-qualified MEMS Microphone Product and Services
  - 2.7.4 Hosiden Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 Hosiden Recent Developments/Updates
- 2.8 Analog Devices
  - 2.8.1 Analog Devices Details
  - 2.8.2 Analog Devices Major Business
  - 2.8.3 Analog Devices Automotive-qualified MEMS Microphone Product and Services
  - 2.8.4 Analog Devices Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.8.5 Analog Devices Recent Developments/Updates
- 2.9 Bosch
  - 2.9.1 Bosch Details
  - 2.9.2 Bosch Major Business
  - 2.9.3 Bosch Automotive-qualified MEMS Microphone Product and Services
  - 2.9.4 Bosch Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.9.5 Bosch Recent Developments/Updates
- 2.10 Memsensing Microsystems
  - 2.10.1 Memsensing Microsystems Details
  - 2.10.2 Memsensing Microsystems Major Business
  - 2.10.3 Memsensing Microsystems Automotive-qualified MEMS Microphone Product and Services
  - 2.10.4 Memsensing Microsystems Automotive-qualified MEMS Microphone Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.10.5 Memsensing Microsystems Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE-QUALIFIED MEMS MICROPHONE BY MANUFACTURER**

- 3.1 Global Automotive-qualified MEMS Microphone Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Automotive-qualified MEMS Microphone Revenue by Manufacturer (2021-2026)
- 3.3 Global Automotive-qualified MEMS Microphone Average Price by Manufacturer

(2021-2026)

### 3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Automotive-qualified MEMS Microphone by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Automotive-qualified MEMS Microphone Manufacturer Market Share in 2025

3.4.3 Top 6 Automotive-qualified MEMS Microphone Manufacturer Market Share in 2025

### 3.5 Automotive-qualified MEMS Microphone Market: Overall Company Footprint Analysis

3.5.1 Automotive-qualified MEMS Microphone Market: Region Footprint

3.5.2 Automotive-qualified MEMS Microphone Market: Company Product Type Footprint

3.5.3 Automotive-qualified MEMS Microphone Market: Company Product Application Footprint

### 3.6 New Market Entrants and Barriers to Market Entry

### 3.7 Mergers, Acquisition, Agreements, and Collaborations

## 4 CONSUMPTION ANALYSIS BY REGION

### 4.1 Global Automotive-qualified MEMS Microphone Market Size by Region

4.1.1 Global Automotive-qualified MEMS Microphone Sales Quantity by Region (2021-2032)

4.1.2 Global Automotive-qualified MEMS Microphone Consumption Value by Region (2021-2032)

4.1.3 Global Automotive-qualified MEMS Microphone Average Price by Region (2021-2032)

4.2 North America Automotive-qualified MEMS Microphone Consumption Value (2021-2032)

4.3 Europe Automotive-qualified MEMS Microphone Consumption Value (2021-2032)

4.4 Asia-Pacific Automotive-qualified MEMS Microphone Consumption Value (2021-2032)

4.5 South America Automotive-qualified MEMS Microphone Consumption Value (2021-2032)

4.6 Middle East & Africa Automotive-qualified MEMS Microphone Consumption Value (2021-2032)

## 5 MARKET SEGMENT BY TYPE

- 5.1 Global Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2032)
- 5.2 Global Automotive-qualified MEMS Microphone Consumption Value by Type (2021-2032)
- 5.3 Global Automotive-qualified MEMS Microphone Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2032)
- 6.2 Global Automotive-qualified MEMS Microphone Consumption Value by Application (2021-2032)
- 6.3 Global Automotive-qualified MEMS Microphone Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2032)
- 7.2 North America Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2032)
- 7.3 North America Automotive-qualified MEMS Microphone Market Size by Country
  - 7.3.1 North America Automotive-qualified MEMS Microphone Sales Quantity by Country (2021-2032)
  - 7.3.2 North America Automotive-qualified MEMS Microphone Consumption Value by Country (2021-2032)
  - 7.3.3 United States Market Size and Forecast (2021-2032)
  - 7.3.4 Canada Market Size and Forecast (2021-2032)
  - 7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

- 8.1 Europe Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2032)
- 8.2 Europe Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2032)
- 8.3 Europe Automotive-qualified MEMS Microphone Market Size by Country
  - 8.3.1 Europe Automotive-qualified MEMS Microphone Sales Quantity by Country (2021-2032)

8.3.2 Europe Automotive-qualified MEMS Microphone Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Automotive-qualified MEMS Microphone Market Size by Region

9.3.1 Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Automotive-qualified MEMS Microphone Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2032)

10.2 South America Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2032)

10.3 South America Automotive-qualified MEMS Microphone Market Size by Country

10.3.1 South America Automotive-qualified MEMS Microphone Sales Quantity by Country (2021-2032)

10.3.2 South America Automotive-qualified MEMS Microphone Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Automotive-qualified MEMS Microphone Market Size by Country

11.3.1 Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Automotive-qualified MEMS Microphone Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

12.1 Automotive-qualified MEMS Microphone Market Drivers

12.2 Automotive-qualified MEMS Microphone Market Restraints

12.3 Automotive-qualified MEMS Microphone Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Automotive-qualified MEMS Microphone and Key Manufacturers

13.2 Manufacturing Costs Percentage of Automotive-qualified MEMS Microphone

13.3 Automotive-qualified MEMS Microphone Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

## 14.1 Sales Channel

### 14.1.1 Direct to End-User

### 14.1.2 Distributors

## 14.2 Automotive-qualified MEMS Microphone Typical Distributors

## 14.3 Automotive-qualified MEMS Microphone Typical Customers

# 15 RESEARCH FINDINGS AND CONCLUSION

# 16 APPENDIX

## 16.1 Methodology

## 16.2 Research Process and Data Source

## 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Automotive-qualified MEMS Microphone Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Automotive-qualified MEMS Microphone Consumption Value by Interface, (USD Million), 2021 & 2025 & 2032

Table 3. Global Automotive-qualified MEMS Microphone Consumption Value by Packaging, (USD Million), 2021 & 2025 & 2032

Table 4. Global Automotive-qualified MEMS Microphone Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Knowles Basic Information, Manufacturing Base and Competitors

Table 6. Knowles Major Business

Table 7. Knowles Automotive-qualified MEMS Microphone Product and Services

Table 8. Knowles Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Knowles Recent Developments/Updates

Table 10. Gorertek Basic Information, Manufacturing Base and Competitors

Table 11. Gorertek Major Business

Table 12. Gorertek Automotive-qualified MEMS Microphone Product and Services

Table 13. Gorertek Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Gorertek Recent Developments/Updates

Table 15. AAC Basic Information, Manufacturing Base and Competitors

Table 16. AAC Major Business

Table 17. AAC Automotive-qualified MEMS Microphone Product and Services

Table 18. AAC Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. AAC Recent Developments/Updates

Table 20. BSE Basic Information, Manufacturing Base and Competitors

Table 21. BSE Major Business

Table 22. BSE Automotive-qualified MEMS Microphone Product and Services

Table 23. BSE Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. BSE Recent Developments/Updates

Table 25. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 26. STMicroelectronics Major Business

Table 27. STMicroelectronics Automotive-qualified MEMS Microphone Product and Services

Table 28. STMicroelectronics Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. STMicroelectronics Recent Developments/Updates

Table 30. TDK Basic Information, Manufacturing Base and Competitors

Table 31. TDK Major Business

Table 32. TDK Automotive-qualified MEMS Microphone Product and Services

Table 33. TDK Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. TDK Recent Developments/Updates

Table 35. Hosiden Basic Information, Manufacturing Base and Competitors

Table 36. Hosiden Major Business

Table 37. Hosiden Automotive-qualified MEMS Microphone Product and Services

Table 38. Hosiden Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Hosiden Recent Developments/Updates

Table 40. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 41. Analog Devices Major Business

Table 42. Analog Devices Automotive-qualified MEMS Microphone Product and Services

Table 43. Analog Devices Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Analog Devices Recent Developments/Updates

Table 45. Bosch Basic Information, Manufacturing Base and Competitors

Table 46. Bosch Major Business

Table 47. Bosch Automotive-qualified MEMS Microphone Product and Services

Table 48. Bosch Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Bosch Recent Developments/Updates

Table 50. Memsensing Microsystems Basic Information, Manufacturing Base and

## Competitors

Table 51. Memsensing Microsystems Major Business

Table 52. Memsensing Microsystems Automotive-qualified MEMS Microphone Product and Services

Table 53. Memsensing Microsystems Automotive-qualified MEMS Microphone Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Memsensing Microsystems Recent Developments/Updates

Table 55. Global Automotive-qualified MEMS Microphone Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 56. Global Automotive-qualified MEMS Microphone Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global Automotive-qualified MEMS Microphone Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 58. Market Position of Manufacturers in Automotive-qualified MEMS Microphone, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and Automotive-qualified MEMS Microphone Production Site of Key Manufacturer

Table 60. Automotive-qualified MEMS Microphone Market: Company Product Type Footprint

Table 61. Automotive-qualified MEMS Microphone Market: Company Product Application Footprint

Table 62. Automotive-qualified MEMS Microphone New Market Entrants and Barriers to Market Entry

Table 63. Automotive-qualified MEMS Microphone Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global Automotive-qualified MEMS Microphone Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global Automotive-qualified MEMS Microphone Sales Quantity by Region (2021-2026) & (K Units)

Table 66. Global Automotive-qualified MEMS Microphone Sales Quantity by Region (2027-2032) & (K Units)

Table 67. Global Automotive-qualified MEMS Microphone Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global Automotive-qualified MEMS Microphone Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global Automotive-qualified MEMS Microphone Average Price by Region (2021-2026) & (US\$/Unit)

Table 70. Global Automotive-qualified MEMS Microphone Average Price by Region

(2027-2032) & (US\$/Unit)

Table 71. Global Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2026) & (K Units)

Table 72. Global Automotive-qualified MEMS Microphone Sales Quantity by Type (2027-2032) & (K Units)

Table 73. Global Automotive-qualified MEMS Microphone Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global Automotive-qualified MEMS Microphone Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global Automotive-qualified MEMS Microphone Average Price by Type (2021-2026) & (US\$/Unit)

Table 76. Global Automotive-qualified MEMS Microphone Average Price by Type (2027-2032) & (US\$/Unit)

Table 77. Global Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2026) & (K Units)

Table 78. Global Automotive-qualified MEMS Microphone Sales Quantity by Application (2027-2032) & (K Units)

Table 79. Global Automotive-qualified MEMS Microphone Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global Automotive-qualified MEMS Microphone Consumption Value by Application (2027-2032) & (USD Million)

Table 81. Global Automotive-qualified MEMS Microphone Average Price by Application (2021-2026) & (US\$/Unit)

Table 82. Global Automotive-qualified MEMS Microphone Average Price by Application (2027-2032) & (US\$/Unit)

Table 83. North America Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2026) & (K Units)

Table 84. North America Automotive-qualified MEMS Microphone Sales Quantity by Type (2027-2032) & (K Units)

Table 85. North America Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2026) & (K Units)

Table 86. North America Automotive-qualified MEMS Microphone Sales Quantity by Application (2027-2032) & (K Units)

Table 87. North America Automotive-qualified MEMS Microphone Sales Quantity by Country (2021-2026) & (K Units)

Table 88. North America Automotive-qualified MEMS Microphone Sales Quantity by Country (2027-2032) & (K Units)

Table 89. North America Automotive-qualified MEMS Microphone Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America Automotive-qualified MEMS Microphone Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2026) & (K Units)

Table 92. Europe Automotive-qualified MEMS Microphone Sales Quantity by Type (2027-2032) & (K Units)

Table 93. Europe Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2026) & (K Units)

Table 94. Europe Automotive-qualified MEMS Microphone Sales Quantity by Application (2027-2032) & (K Units)

Table 95. Europe Automotive-qualified MEMS Microphone Sales Quantity by Country (2021-2026) & (K Units)

Table 96. Europe Automotive-qualified MEMS Microphone Sales Quantity by Country (2027-2032) & (K Units)

Table 97. Europe Automotive-qualified MEMS Microphone Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe Automotive-qualified MEMS Microphone Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2026) & (K Units)

Table 100. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Type (2027-2032) & (K Units)

Table 101. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2026) & (K Units)

Table 102. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Application (2027-2032) & (K Units)

Table 103. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Region (2021-2026) & (K Units)

Table 104. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity by Region (2027-2032) & (K Units)

Table 105. Asia-Pacific Automotive-qualified MEMS Microphone Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific Automotive-qualified MEMS Microphone Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2026) & (K Units)

Table 108. South America Automotive-qualified MEMS Microphone Sales Quantity by Type (2027-2032) & (K Units)

Table 109. South America Automotive-qualified MEMS Microphone Sales Quantity by

Application (2021-2026) & (K Units)

Table 110. South America Automotive-qualified MEMS Microphone Sales Quantity by Application (2027-2032) & (K Units)

Table 111. South America Automotive-qualified MEMS Microphone Sales Quantity by Country (2021-2026) & (K Units)

Table 112. South America Automotive-qualified MEMS Microphone Sales Quantity by Country (2027-2032) & (K Units)

Table 113. South America Automotive-qualified MEMS Microphone Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America Automotive-qualified MEMS Microphone Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Country (2021-2026) & (K Units)

Table 120. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity by Country (2027-2032) & (K Units)

Table 121. Middle East & Africa Automotive-qualified MEMS Microphone Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa Automotive-qualified MEMS Microphone Consumption Value by Country (2027-2032) & (USD Million)

Table 123. Automotive-qualified MEMS Microphone Raw Material

Table 124. Key Manufacturers of Automotive-qualified MEMS Microphone Raw Materials

Table 125. Automotive-qualified MEMS Microphone Typical Distributors

Table 126. Automotive-qualified MEMS Microphone Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Automotive-qualified MEMS Microphone Picture

Figure 2. Global Automotive-qualified MEMS Microphone Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Automotive-qualified MEMS Microphone Revenue Market Share by Type in 2025

Figure 4. Analog Microphone Examples

Figure 5. Digital Microphone Examples

Figure 6. Global Automotive-qualified MEMS Microphone Revenue by Interface, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Automotive-qualified MEMS Microphone Revenue Market Share by Interface in 2025

Figure 8. I2S Interface Examples

Figure 9. PDM Interface Examples

Figure 10. Others Examples

Figure 11. Global Automotive-qualified MEMS Microphone Revenue by Packaging, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Automotive-qualified MEMS Microphone Revenue Market Share by Packaging in 2025

Figure 13. SMD Examples

Figure 14. LGA Examples

Figure 15. Others Examples

Figure 16. Global Automotive-qualified MEMS Microphone Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Automotive-qualified MEMS Microphone Revenue Market Share by Application in 2025

Figure 18. Commercial Vehicle Examples

Figure 19. Passenger Vehicle Examples

Figure 20. Global Automotive-qualified MEMS Microphone Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 21. Global Automotive-qualified MEMS Microphone Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 22. Global Automotive-qualified MEMS Microphone Sales Quantity (2021-2032) & (K Units)

Figure 23. Global Automotive-qualified MEMS Microphone Price (2021-2032) & (US\$/Unit)

Figure 24. Global Automotive-qualified MEMS Microphone Sales Quantity Market Share by Manufacturer in 2025

Figure 25. Global Automotive-qualified MEMS Microphone Revenue Market Share by Manufacturer in 2025

Figure 26. Producer Shipments of Automotive-qualified MEMS Microphone by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 Automotive-qualified MEMS Microphone Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 Automotive-qualified MEMS Microphone Manufacturer (Revenue) Market Share in 2025

Figure 29. Global Automotive-qualified MEMS Microphone Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global Automotive-qualified MEMS Microphone Consumption Value Market Share by Region (2021-2032)

Figure 31. North America Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 34. South America Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 36. Global Automotive-qualified MEMS Microphone Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global Automotive-qualified MEMS Microphone Consumption Value Market Share by Type (2021-2032)

Figure 38. Global Automotive-qualified MEMS Microphone Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. Global Automotive-qualified MEMS Microphone Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global Automotive-qualified MEMS Microphone Revenue Market Share by Application (2021-2032)

Figure 41. Global Automotive-qualified MEMS Microphone Average Price by Application (2021-2032) & (US\$/Unit)

Figure 42. North America Automotive-qualified MEMS Microphone Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America Automotive-qualified MEMS Microphone Sales Quantity

Market Share by Application (2021-2032)

Figure 44. North America Automotive-qualified MEMS Microphone Sales Quantity

Market Share by Country (2021-2032)

Figure 45. North America Automotive-qualified MEMS Microphone Consumption Value

Market Share by Country (2021-2032)

Figure 46. United States Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe Automotive-qualified MEMS Microphone Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe Automotive-qualified MEMS Microphone Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe Automotive-qualified MEMS Microphone Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe Automotive-qualified MEMS Microphone Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 54. France Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Automotive-qualified MEMS Microphone Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific Automotive-qualified MEMS Microphone Consumption Value Market Share by Region (2021-2032)

Figure 62. China Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 65. India Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 68. South America Automotive-qualified MEMS Microphone Sales Quantity Market Share by Type (2021-2032)

Figure 69. South America Automotive-qualified MEMS Microphone Sales Quantity Market Share by Application (2021-2032)

Figure 70. South America Automotive-qualified MEMS Microphone Sales Quantity Market Share by Country (2021-2032)

Figure 71. South America Automotive-qualified MEMS Microphone Consumption Value Market Share by Country (2021-2032)

Figure 72. Brazil Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 73. Argentina Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 74. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity Market Share by Type (2021-2032)

Figure 75. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity Market Share by Application (2021-2032)

Figure 76. Middle East & Africa Automotive-qualified MEMS Microphone Sales Quantity Market Share by Country (2021-2032)

Figure 77. Middle East & Africa Automotive-qualified MEMS Microphone Consumption Value Market Share by Country (2021-2032)

Figure 78. Turkey Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 79. Egypt Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 80. Saudi Arabia Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 81. South Africa Automotive-qualified MEMS Microphone Consumption Value (2021-2032) & (USD Million)

Figure 82. Automotive-qualified MEMS Microphone Market Drivers

Figure 83. Automotive-qualified MEMS Microphone Market Restraints

Figure 84. Automotive-qualified MEMS Microphone Market Trends

Figure 85. Porters Five Forces Analysis

Figure 86. Manufacturing Cost Structure Analysis of Automotive-qualified MEMS Microphone in 2025

Figure 87. Manufacturing Process Analysis of Automotive-qualified MEMS Microphone

Figure 88. Automotive-qualified MEMS Microphone Industrial Chain

Figure 89. Sales Channel: Direct to End-User vs Distributors

Figure 90. Direct Channel Pros & Cons

Figure 91. Indirect Channel Pros & Cons

Figure 92. Methodology

Figure 93. Research Process and Data Source

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