

Global Automotive-qualified MEMS Microphone Market Growth 2026-2032

<https://marketpublishers.com/r/GB1CDEB94352EN.html>

Date: August 2026

Pages: 105

Price: US\$ 3,660.00 (Single User License)

ID: GB1CDEB94352EN

Abstracts

The global Automotive-qualified MEMS Microphone market size is predicted to grow from US\$ 470 million in 2025 to US\$ 867 million in 2032; it is expected to grow at a CAGR of 9.3% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Automotive-qualified MEMS Microphone Industry Forecast" looks at past sales and reviews total world Automotive-qualified MEMS Microphone sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive-qualified MEMS Microphone sales for 2026 through 2032. With Automotive-qualified MEMS Microphone sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive-qualified MEMS Microphone industry.

This Insight Report provides a comprehensive analysis of the global Automotive-qualified MEMS Microphone landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive-qualified MEMS Microphone portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive-qualified MEMS Microphone market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive-qualified MEMS Microphone and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive-qualified MEMS Microphone.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive-qualified MEMS Microphone market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Analog Microphone

Digital Microphone

Segmentation by Interface:

I2S Interface

PDM Interface

Others

Segmentation by Packaging:

SMD

LGA

Others

Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

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

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

market penetration.

Knowles

Gorertek

AAC

BSE

STMicroelectronics

TDK

Hosiden

Analog Devices

Bosch

Memsensing Microsystems

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive-qualified MEMS Microphone market?

What factors are driving Automotive-qualified MEMS Microphone market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive-qualified MEMS Microphone market opportunities vary by end market size?

How does Automotive-qualified MEMS Microphone break out by Type, by Application?

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