

Global Automotive Microphone Acoustics Modules Market Growth 2026-2032

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Abstracts

The global Automotive Microphone Acoustics Modules market size is predicted to grow from US\$ 1321 million in 2025 to US\$ 2958 million in 2032; it is expected to grow at a CAGR of 12.4% from 2026 to 2032.

Automotive Microphone Acoustics Modules are vehicle-grade acoustic units designed to deliver stable voice capture, noise suppression, and echo control under wide temperature ranges, vibration stress, and complex in-cabin acoustics, thereby ensuring reliable interaction performance. In 2024, production totaled 150 million units with an average price of USD 8 per unit. Typical single-line annual capacity was about 300 thousand units, and the average gross margin was around 30%. In the industry chain, the upstream relies on MEMS microphone chips and audio signal-processing ASICs, with representative suppliers including Knowles, Cirrus Logic, Qualcomm, and NXP. The midstream covers array architecture design, module assembly, acoustic calibration, firmware development, and algorithm refinement. The downstream serves commercial-vehicle and passenger-vehicle manufacturers, with typical customers including Tesla, Volkswagen, Toyota, BYD, and SAIC Motor.

The market outlook for Automotive Microphone Acoustics Modules is supported by the rapid expansion of voice-interactive functions in next-generation vehicles, driven by cabin intelligence, autonomous driving, and the shift toward multi-modal human-machine interfaces. As automakers enhance in-cabin noise control, extend far-field speech recognition, and integrate voice interaction into safety-critical scenarios, demand for high-performance acoustic modules is expected to rise steadily. Increasing adoption of domain controllers and centralized architectures also favors more advanced microphone arrays and calibrated acoustic modules, enabling higher accuracy and reliability. Overall, this market is set for sustained growth as voice interaction becomes a

core entry point of intelligent vehicle experiences.

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

This Insight Report provides a comprehensive analysis of the global Automotive Microphone Acoustics Modules 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 Microphone Acoustics Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Microphone Acoustics Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Microphone Acoustics Modules 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 Microphone Acoustics Modules.

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

Segmentation by Type:

ECM Microphone

MEMS Microphone

Segmentation by Microphone Count:

4-Mic Array Module

6-Mic Array Module

8-Mic Array Module

Others

Segmentation by Acoustic Characteristics:

Omnidirectional Type

Cardioid Directional Type

Others

Segmentation by Array Architecture:

Linear Array

Circular Array

Others

Segmentation by Application:

Passenger Cars

Commercial 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 Electronics

HARMAN

Gorertek

Gettop Acoustic

Kingstate

Suzhou Sonavox Electronics

Dongguan Huaze Electronic

Hosiden

STMicroelectronics

AAC

Gevotai

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Microphone Acoustics

Modules market?

What factors are driving Automotive Microphone Acoustics Modules market growth, globally and by region?

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

How do Automotive Microphone Acoustics Modules market opportunities vary by end market size?

How does Automotive Microphone Acoustics Modules break out by Type, by Application?

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