

MEMS Microphones - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The MEMS Microphones Market size is estimated at USD 2.26 billion in 2024, and is expected to reach USD 3.07 billion by 2029, growing at a CAGR of 6.32% during the forecast period (2024-2029).

The application of MEMS (micro-electro-mechanical systems) technology to microphones has led to development of small microphones with very high performance. Further, increasing global consumer electronics demand is expected to drive the demand for these products.

Key Highlights

- Increasing smartphone penetration is driving the market. Advanced MEMS microphones can enhance the audio experience in smartphones and portable computers. The adoption of highly featured smartphones has led to the usage of more than one microphone per phone for audio processing, such as echo and noise cancellation, wind noise filtering, beam steering, 3D sounds, and other interesting effects.
- The proliferation of IoT-based connected phones and VR technology has opened up new industry opportunities. MEMS microphones are commonly employed with the Internet of Things-enabled smart devices, such as Amazon Echo intelligent speakers that operate on voice control instructions. MEMS microphones are also included in the headphones, which improve the user experiences for gameplay and VR-based entertainment. Increasing technology advancement in these products is expected to boost product demand over the forecast period.
- Furthermore, the growing use of microphones in automotive applications is projected to open up new market possibilities in the coming years. Knowles Corporation released two SiSonic MEMS microphones, SPH1878 and SPH9855, for vehicle industries in April 2021. Knowles' analog and digital mics are developed to a better quality and supplier guarantee level to serve the automobile industry's rising need for improved voice assist, hands-free communication, and in-cabin noise-canceling for rider convenience.

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-Moreover, during the lockdown period, the tech and audio industries are announcing new products due to the Covid-19 impact, and restrictions are starting to be relaxed. Throughout the outbreak, the need for microphones in residential automation equipment, retail outlets, medical, and grocery supported the development of the MEMS microphone industry. Furthermore, with the easing of lockdown restrictions, demand for speech interface technologies is likely to surge, resulting in a rebound in the MEMS Microphones demand throughout the forecasted period.

MEMS Microphone Market Trends

Consumer Electronics to Witness Significant Growth

- Consumer electronics and accessories are significant contributors to the MEMS microphone industry as they have witnessed a significantly increased adoption over the past few years. Smartphones, Tablets, Laptops, Smart Speakers, Smart TVs, PC Accessories, and Handheld GPS, among others, are considered while evaluating the consumer electronics and accessories segment.
- MEMS microphones have been used in applications for transmitting information via smartphone video or FaceTime due to their tiny size and progress in acoustic qualities. Many consumer gadgets support voice calls or voice control, as most people interact and manage their devices using their voices.
- Further, the increasing demand for smart speakers due to rising trends in smart home products with increasing use of MEMS microphones to boost user experience will also drive the growth of the studied market over the forecast period. For instance, Apple iPhone uses four microphones, and Amazon Echo uses seven. A surge in households using smart speakers is observed, and a significant shift in consumer habits towards voice has driven the same.
- Increasing product launches by major players operating in the market due to increasing demand for consumer electronics, including smartphones and tablets, is expected to contribute to market growth. For instance, TDK introduced a digitized MEMS microphone featuring an audio wire connection, true wireless stereo, and reduced power mode in January 2022, suited for smartphones, cameras, tablets, and smart speakers.

North America Accounts to Hold Significant Share

- With the already significant consumer electronics market in the United States, the MEMS Microphone will expect a considerable adoption rate due to the vast smartphone penetration rates in the region. As the smartphone market is one of the most intense adopters of MEMS microphone technology, the adoption rate of the technology is likely to be boosted substantially. The United States is home to one of the largest smartphone manufacturers. Apple has been noted as one of the largest buyers of the technology, incorporating MEMS microphones in various iPhone models.
- The increasing adoption of smartphones is expected to boost the demand for these technologies over the coming years. The United States is one of the largest smartphone markets in the world, with one of the highest smartphone penetration rates worldwide. For instance, according to the US Census Bureau and Consumer Technology Association, in 2022, smartphone sales value in the United States will be around USD 74.7 billion.
- Furthermore, operators in North America are providing connectivity for digital solutions that reduce GHG emissions, such as reducing energy use for travel and transport. For instance, Knowles Electronics, a supplier of advanced micro-acoustic and human interface solutions based in Illinois, enables OEMs to deliver superior audio experiences and natural voice interactions with connected devices, like smart speakers, TVs, and connected home devices, wearables, headsets, smartphones, and hear-aids.
- Tinnitus and associated auditory impairments affect around 10% of the adult community in the United States, according to research released in March 2021 by the National Institute on Deafness and Other Communicable Disorders (NIDCD). Furthermore,

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about a quarter of postage 65 experience disabling loss, boosting hearing aid demand across the country. Furthermore, the growing elderly population in the United States, which is sensitive to hearing loss, is expected to drive market expansion. According to the United Nations, the number of people aged 65 and over in the United States is forecast to grow from 35 million in 2000 to 80 million in 2040, creating a tremendous need for these technologies in the foreseeable years, thus contributing to market growth.

MEMS Microphone Industry Overview

The MEMS Microphone Market consists of various major players existing in the market. It is viewed as a productive investment due to the huge popularity gained in the consumer electronics industry. Large organizations invest heavily in new expansion, partnerships, and new players' entrance. The market is moving towards fragmented nature due to a large number of new entrants. The existing players are spending increasingly on R&D to achieve product innovations. Some players operating in the market include Vesper Technologies Inc. , CUI Inc., STMicroelectronics NV, Infineon Technologies AG, and Knowles Electronics LLC.

In September 2022, NOVOSENSE Microelectronics declared the release of six new manufacturing and automotive-qualified chip series, along with an isolated driver, isolated sampling, gate driver, silicon microphone conditioning chip, non-isolated high-voltage half-bridge driver, and gauge pressure sensor, which will be utilized in new energy vehicles, industrial, electronic goods, and medical sectors.

In August 2022, Soundskrit launched a high-performance MEMS mic capable of replacing standard microphone panels with a superior alternative. The SKR0400 is the world's first dimensional MEMS microphone designed for present and upcoming consumer electronics design concepts.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS

- 4.1 Market Overview
- 4.2 Industry Value Chain Analysis
- 4.3 Industry Attractiveness - Porter Five Forces
 - 4.3.1 Threat of New Entrants
 - 4.3.2 Bargaining Power of Buyers
 - 4.3.3 Bargaining Power of Suppliers
 - 4.3.4 Threat of Substitute Products
 - 4.3.5 Intensity of Competitive Rivalry

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4.4 Impact of COVID-19 on the MEMS Microphone Industry

5 MARKET DYNAMICS

5.1 Market Drivers

5.1.1 Increasing Smartphone Penetration

5.1.2 Expanding Adoption of Voice-enabled Smart Devices

5.2 Market Restraints

5.2.1 Erosion of Average Selling Price of MEMS Microphones

6 MARKET SEGMENTATION

6.1 By SNR Range

6.1.1 SNR Range Less Than 60 dB

6.1.2 Medium SNR Range from 60 - 65 dB

6.1.3 SNR Range More than 65 dB

6.2 By Signal Type

6.2.1 Analog

6.2.2 Digital

6.3 By Application

6.3.1 Consumer Electronics and Accessories

6.3.2 Hearing Aids

6.3.3 Wearables and IoT Devices

6.3.4 Head-mounted Displays (AR, VR, MR)

6.3.5 Automotive

6.3.6 Other Applications

6.4 By Geography

6.4.1 North America

6.4.2 Europe

6.4.3 Asia Pacific

6.4.4 Rest of the World

7 COMPETITIVE LANDSCAPE

7.1 Company Profiles

7.1.1 Vesper Technologies Inc.

7.1.2 CUI Inc.

7.1.3 STMicroelectronics NV

7.1.4 Infineon Technologies AG

7.1.5 Knowles Electronics LLC

7.1.6 GoerTek Inc.

7.1.7 AAC Technologies

7.1.8 New Japan Radio Company Ltd.

7.1.9 TDK Corporation

7.1.10 BSE Co. Ltd.

7.1.11 Hosiden Corporation

7.1.12 NeoMEMS Technologies Inc.

8 INVESTMENT ANALYSIS

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