

Global MEMS Microphones Market Size study, byType (Digital, Analog) by SNR (Very high (≥ 64 dB), High (≥ 60 dB,

Abstracts

Global MEMS MicrophonesMarket is valued approximately USD 1.58 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 14.4 % over the forecast period 2021-2027. MEMS microphones are sometimes known as silicon microphones or microphone chips. MEMS microphones are utilized in any audio context where tiny size, great sound performance, dependability, and accessibility are required. The MEMS microphone's acceptance rates have risen due to the growing popularity of voice-enabled connected devices. In contrary to in-home devices, despite the increasing deployment of advanced speakers with voice control capabilities, the majority of voice assistant usage is likely to occur on handsets. According to the Association for Federal Enterprise Risk Management (AFERM), by 2022, over 5 billion assistants will be deployed on handsets around the world. The market is being driven by rising smartphone penetration. Advanced MEMS microphones have the potential to improve the audio quality of smartphones and desktop computers. Because of the widespread adoption of high-end smartphones, more than one microphone is now used per smart phone for audio processing such as echoed and noise reduction, wind noise removal, beam directing, 3D sound, and other fun aspects. Apple's iPhone, for example, has four microphones, while Amazon's Echo has 7. By 2022, the worldwide smart speaker industry is expected to reach USD 27 billion. However, MEMS microphones with increased SNR proved out to be too big for handsets. As a result, MEMS microphones based on piezoelectric technology are now limited to cellular modem gadgets and portable smart speakers, limiting market expansion. The never-ending key difficulty impeding market growth is fluctuating profit margins due to declining sale prices. The problems of the MEMS Microphones sector include technical concerns such as poor sound quality in a noisy environment. Also, the expanding ageing population, which suffers from hearing loss, has sparked demand for hearing aids with high-quality microphones, which is likely to propel market expansion throughout the forecast period.

North America accounts for a substantial portion of the market. Because of the massive existing consumer technology market in north America, the MEMS Microphone is expected to see a high number of adoption rates due to the region's high smart phone penetration rates. In addition, North American operators are offering connection for digital solutions that cut GHG emissions, such as reducing carbon use in transporting materials. Attributed to the prevalence of well-established production centers in China,

the Philippines, and Thailand, Asia Pacific now dominates the MEMS microphone industry. As a result of the continuous proliferation of mobile devices, assistive devices, other home appliances, and IoT & VR devices in the region, the Asia Pacific regional market is predicted to grow at the fastest rate over the projected period. The MEA regional market is also predicted to rise significantly. Given that virtual reality is still in its infancy, various hackathon events are held on a regular basis to popularize the technology in the MEA region, hence driving demand for MEMS microphones.

Major market player included in this report are:

BSE Co., Ltd.
Hosiden Corporation
Knowles LLC
InvenSense, Inc.
Cirrus Logic, Inc.
CUI, Inc.
Infineon Technologies AG
AAC Technologies
Goertek
Vesper Technologies

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 eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available 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:

By Type:

Digital

Analog

By SNR:

Very high (≥ 64 dB)

High (≥ 60 dB,

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