

Audio IC Market by IC Type (Audio Amplifier, Audio DSP, Audio Codecs, Microphone IC), Application (Mobile Phones, Computer and Tablets, Headphones, Home Entertainment Systems, Automotive, Smart Home and IoT Devices, Wearables, and Others), and Region 2024-2032

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Abstracts

The global audio IC market size reached US\$ 34.5 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 59.4 Billion by 2032, exhibiting a growth rate (CAGR) of 6.02% during 2024-2032. Escalating product demand in the professional audio industry, growing trend of device miniaturization, and continual technological advancements in the manufacturing of energy-efficient audio devices represent some of the key factors driving the market.

An audio integrated circuit is a discrete semiconductor device with an integrated set of circuits that perform the function of an audio transducer or a preamplifier. It is a single chip that performs all the essential functions of an audio circuit, including amplification, filtering, and input/output circuitry. Typically, this single-chip design provides enhanced sound quality, lower power consumption, and reduced manufacturing costs as compared to discrete audio circuits. The primary function of audio IC amplifier is to increase vibrations to the maximum range of signals without impacting frequency or any wavelength and help improve the efficiency of a system. The chip is primarily composed of built-in audio amplifier, audio processor, MEMS microphone, and subsystems. There is a wide range of audio integrated circuits (ICs), like audio amplifiers, audio DSPs, converters, and processors. There are many uses for audio integrated circuits, like automotive audio, professional audio, smart homes, and portable devices.

Audio IC Market Trends:

The global market is primarily driven by the escalating product demand in the professional audio industry. This can be attributed to considerable growth in the media and communications sector. In line with this, the widespread adoption of consumer electronics devices, smart home appliances and advanced quality audio devices among the masses are augmenting the product uptake. Moreover, continual technological advancements in the manufacturing of energy-efficient and innovative audio devices with better user experience are resulting in an increased demand for audio ICs. The growing trend of device miniaturization is resulting in the development of application-specific CPUs and subsystems to incorporate the power to accommodate the compact size and weight of the computer. Additionally, rapid advancements in connected devices and the Internet of Things (IoT) technologies are resulting in the growing integration of audio ICs into a variety of industrial applications. Besides this, the increasing penetration of wireless and smart infrastructure, along with increased demand for high-definition audio at commercial events, is also propelling the market. The augmenting demand for SoC and technical flaws and problems involved with integrating audio devices are acting as major growth restraints for the audio IC market. In contrast, numerous innovations in the VR technology and increasing demand for on-board media entertainment systems is creating a positive market outlook. Some of the other factors contributing to the market include rapid urbanization, the advent of Industry 4.0, inflating disposable income levels and extensive research and development (R&D) activities.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global audio IC market, along with forecasts at the global, regional, and country level from 2024-2032. Our report has categorized the market based on IC type and application.

IC Type Insights

Audio Amplifier

Audio DSP

Audio Codecs

Microphone IC

The report has provided a detailed breakup and analysis of the audio IC market based on the IC type. This includes audio amplifier, audio DSP, audio codecs, and microphone IC. According to the report, audio DSP represented the largest segment.

Application Insights

Mobile Phones
Computer and Tablets
Headphones
Home Entertainment Systems
Automotive
Smart Home and IoT Devices
Wearables
Others

A detailed breakup and analysis of the audio IC market based on the application has also been provided in the report. This includes mobile phones, computer and tablets, headphones, home entertainment systems, automotive, smart home and IoT devices, wearables, and others. According to the report, mobile phones accounted for the largest market share.

Regional Insights

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, Asia Pacific was the largest market for audio IC. Some of the factors driving the Asia Pacific audio IC market include the increasing penetration of wireless and smart infrastructure, rapid urbanization, growing trend of device miniaturization, etc.

Competitive Landscape

The report has also provided a comprehensive analysis of the competitive landscape in the global audio IC market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Analog Devices Inc., Cirrus Logic Inc., Infineon Technologies AG, NXP Semiconductors N.V., onsemi, Renesas Electronics Corporation, ROHM Co. Ltd., STMicroelectronics N.V., Texas Instruments Incorporated, Toshiba Corporation, etc.

Key Questions Answered in This Report:

How has the global audio IC market performed so far and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global audio IC market?

What are the key regional markets?

Which countries represent the most attractive audio IC markets?

What is the breakup of the market based on the IC type?

What is the breakup of the market based on the application?

What is the competitive structure of the global audio IC market?

Who are the key players/companies in the global audio IC market?

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