

# **Audio CODEC Market Report by Function (With DSP, Without DSP), Component (Hardware, Software), End Use (Computer, Phones, Tablets, Over-Ear Headphones, TWS, Home Entertainment, Commercial, Automotive, Portable, Smart Home, IoT, Wearable, AR/VR), and Region 2024-2032**

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## **Abstracts**

The global audio CODEC market size reached US\$ 6.6 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 9.1 Billion by 2032, exhibiting a growth rate (CAGR) of 3.43% during 2024-2032.

Audio coder-decoder (CODEC) is an integrated circuit (IC) and computer-based application that compresses and decomposes data stream and digital acoustic signals. Its software-based system implements a range of algorithms that are used for encoding, decoding, and compressing data. It also exhibits the capability of both analog-to-digital converter (ADC) and digital-to-analog converter (DAC). Audio CODEC aids in reducing the audio file size without affecting the data quality and storing high-quality audio signals while utilizing minimum storage space. Along with this, it has easy multichannel interfacing properties, enables low noise distortion, and eliminates the bandwidth required to transmit acoustic signals. Based on these properties, audio CODEC finds extensive applications in automotive infotainment systems, soundbars, home theaters, and consumer electronic devices to offer an immersive experience.

Audio CODEC Market Trends:

The increasing proliferation of internet users, the rising need for various consumer electronics, such as computers, phones, and tablets, and the emergence of the Internet of Things (IoT)-enabled communication devices are primarily driving the Audio CODEC

market growth. In line with this, the extensive utilization of several wearable smartwatches, miniaturized electronic devices, wireless headphones, and headsets for entertainment purposes, especially during the COVID-19 pandemic, is supplementing the product demand across the globe. Additionally, the ongoing construction of smart homes equipped with home theaters to watch over-the-top (OTT) series and stream high-definition (HD) music has intensified the widespread adoption of audio CODEC across the residential sector, which is acting as another growth-inducing factor. Moreover, the shifting consumer inclination toward premium automobiles with advanced features has augmented the incorporation of audio CODEC in wireless infotainment systems, which, in turn, is supporting the market growth. Apart from this, the growing demand for virtual reality (VR) integrated gaming consoles with high-quality audio and the continual launch of multiple product variants with enhanced features by key players are creating a positive outlook for the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global audio CODEC market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on function, component and end use.

#### Breakup by Function:

- With DSP
- Without DSP

#### Breakup by Component:

- Hardware
- Software

#### Breakup by End Use:

- Computer
- Phones
- Tablets
- Over-Ear Headphones
- TWS
- Home Entertainment
- Commercial

Automotive  
Portable  
Smart Home  
IoT  
Wearable  
AR/VR

#### Breakup by Region:

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

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Analog Devices Inc., Barix, Cirrus Logic Inc., DSP Group Inc., Qualcomm Inc., Realtek Semiconductor Corp., Rohm Co. Ltd, STMicroelectronics and Texas Instruments Inc.

## Key Questions Answered in This Report

1. What was the size of the global audio CODEC market in 2023?
2. What is the expected growth rate of the global audio CODEC market during 2024-2032?
3. What are the key factors driving the global audio CODEC market?
4. What has been the impact of COVID-19 on the global audio CODEC market?
5. What is the breakup of the global audio CODEC market based on the function?
6. What is the breakup of the global audio CODEC market based on the component?
7. What is the breakup of the global audio CODEC market based on the end use?
8. What are the key regions in the global audio CODEC market?
9. Who are the key players/companies in the global audio CODEC market?

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