

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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL AUDIO CODEC MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY FUNCTION

- 6.1 With DSP
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Without DSP
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

7 MARKET BREAKUP BY COMPONENT

7.1 Hardware

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Software

7.2.1 Market Trends

7.2.2 Market Forecast

8 MARKET BREAKUP BY END USE

8.1 Computer

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Phones

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Tablets

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Over-Ear Headphones

8.4.1 Market Trends

8.4.2 Market Forecast

8.5 TWS

8.5.1 Market Trends

8.5.2 Market Forecast

8.6 Home Entertainment

8.6.1 Market Trends

8.6.2 Market Forecast

8.7 Commercial

8.7.1 Market Trends

8.7.2 Market Forecast

8.8 Automotive

8.8.1 Market Trends

8.8.2 Market Forecast

8.9 Portable

8.9.1 Market Trends

8.9.2 Market Forecast

8.10 Smart Home

- 8.10.1 Market Trends
- 8.10.2 Market Forecast
- 8.11 IoT
 - 8.11.1 Market Trends
 - 8.11.2 Market Forecast
- 8.12 Wearable
 - 8.12.1 Market Trends
 - 8.12.2 Market Forecast
- 8.13 AR/VR
 - 8.13.1 Market Trends
 - 8.13.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends

- 9.2.6.2 Market Forecast
- 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
 - 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Analog Devices Inc.

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Barix

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.3 Cirrus Logic Inc.

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

- 14.3.3.3 Financials
- 14.3.3.4 SWOT Analysis
- 14.3.4 DSP Group Inc.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
- 14.3.5 Qualcomm Inc.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
- 14.3.6 Realtek Semiconductor Corp.
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
 - 14.3.6.4 SWOT Analysis
- 14.3.7 Rohm Co. Ltd
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 STMicroelectronics
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 Texas Instruments Inc.
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Audio CODEC Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Audio CODEC Market Forecast: Breakup by Function (in Million US\$), 2024-2032

Table 3: Global: Audio CODEC Market Forecast: Breakup by Component (in Million US\$), 2024-2032

Table 4: Global: Audio CODEC Market Forecast: Breakup by End Use (in Million US\$), 2024-2032

Table 5: Global: Audio CODEC Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: Audio CODEC Market: Competitive Structure

Table 7: Global: Audio CODEC Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Audio CODEC Market: Major Drivers and Challenges

Figure 2: Global: Audio CODEC Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Audio CODEC Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Audio CODEC Market: Breakup by Function (in %), 2023

Figure 5: Global: Audio CODEC Market: Breakup by Component (in %), 2023

Figure 6: Global: Audio CODEC Market: Breakup by End Use (in %), 2023

Figure 7: Global: Audio CODEC Market: Breakup by Region (in %), 2023

Figure 8: Global: Audio CODEC (With DSP) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Audio CODEC (With DSP) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Audio CODEC (Without DSP) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Audio CODEC (Without DSP) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Audio CODEC (Hardware) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Audio CODEC (Hardware) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Audio CODEC (Software) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Audio CODEC (Software) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Audio CODEC (Computer) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Audio CODEC (Computer) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Audio CODEC (Phones) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Audio CODEC (Phones) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Audio CODEC (Tablets) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Audio CODEC (Tablets) Market Forecast: Sales Value (in Million

US\$), 2024-2032

Figure 22: Global: Audio CODEC (Over-Ear Headphones) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Audio CODEC (Over-Ear Headphones) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Audio CODEC (TWS) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Audio CODEC (TWS) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Audio CODEC (Home Entertainment) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Audio CODEC (Home Entertainment) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Audio CODEC (Commercial) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Audio CODEC (Commercial) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Audio CODEC (Automotive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Audio CODEC (Automotive) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: Audio CODEC (Portable) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: Audio CODEC (Portable) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: Audio CODEC (Smart Home) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: Audio CODEC (Smart Home) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Global: Audio CODEC (IoT) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Global: Audio CODEC (IoT) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: Global: Audio CODEC (Wearable) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: Global: Audio CODEC (Wearable) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: Global: Audio CODEC (AR/VR) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: Global: Audio CODEC (AR/VR) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: North America: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: North America: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: United States: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: United States: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Canada: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Canada: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Asia-Pacific: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Asia-Pacific: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: China: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: China: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: Japan: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: Japan: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: India: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: India: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: South Korea: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: South Korea: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Australia: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Australia: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Indonesia: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Indonesia: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: Others: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: Others: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: Europe: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: Europe: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 66: Germany: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: Germany: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 68: France: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: France: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 70: United Kingdom: Audio CODEC Market: Sales Value (in Million US\$), 2018 &
2023

Figure 71: United Kingdom: Audio CODEC Market Forecast: Sales Value (in Million
US\$), 2024-2032

Figure 72: Italy: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Italy: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 74: Spain: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 75: Spain: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 76: Russia: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 77: Russia: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 78: Others: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 79: Others: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 80: Latin America: Audio CODEC Market: Sales Value (in Million US\$), 2018 &
2023

Figure 81: Latin America: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 82: Brazil: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 83: Brazil: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 84: Mexico: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 85: Mexico: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 86: Others: Audio CODEC Market: Sales Value (in Million US\$), 2018 & 2023

Figure 87: Others: Audio CODEC Market Forecast: Sales Value (in Million US\$),
2024-2032

Figure 88: Middle East and Africa: Audio CODEC Market: Sales Value (in Million US\$),

2018 & 2023

Figure 89: Middle East and Africa: Audio CODEC Market: Breakup by Country (in %), 2023

Figure 90: Middle East and Africa: Audio CODEC Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 91: Global: Audio CODEC Industry: SWOT Analysis

Figure 92: Global: Audio CODEC Industry: Value Chain Analysis

Figure 93: Global: Audio CODEC Industry: Porter's Five Forces Analysis

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