

# Audio AMPs and Codecs Market Forecasts to 2032 – Global Analysis By Product (Audio Amplifiers (AMPs) and Audio Codecs), Channel Type (Mono, Stereo, 2.1 Channel and Other Channel Types), Technology, Application and By Geography

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## Abstracts

According to Statistics MRC, the Global Audio AMPs and Codecs Market is accounted for \$12.69 billion in 2025 and is expected to reach \$21.20 billion by 2032 growing at a CAGR of 7.6% during the forecast period. Codecs and audio amplifiers (AMPs) are crucial parts of audio processing systems. To ensure loud and clear sound output, audio amplifiers boost the strength of audio signals sent to speakers or headphones. In order to facilitate effective storage, transmission, and playback, codecs (coder-decoders) transform analogue audio signals into digital form and vice versa. These parts are frequently found in consumer electronics, laptops, tablets, smartphones, and car infotainment systems. They are essential components of contemporary digital gadgets because of their ability to improve audio quality, lower power consumption, and offer cutting-edge features like noise cancellation and high-definition audio.

Market Dynamics:

Driver:

Rising demand for consumer electronics

The demand for high-performance audio components is driven by the rising sales of wearable technology, smartphones, tablets, and smart TVs. Nowadays, consumers demand small devices with engaging audio experiences and excellent sound quality. This forces producers to incorporate cutting-edge codecs and amplifiers into their

goods. Furthermore, the need for high-end audio solutions has increased due to the expansion of gaming and streaming platforms. As a result, the industry keeps growing thanks to improvements made to fit changing trends in consumer electronics.

#### Restraint:

##### High competition and price pressure

Profit margins for both new and established players are lowered by fierce price pressure and high competition. Consequently, businesses find it difficult to spend money on R&D for novel products. It is particularly challenging for smaller businesses to thrive in such a competitive pricing climate. Product distinctiveness is impacted if the emphasis moves from performance and quality to cost reduction. In the end, this slows down technological innovation and total market growth.

#### Opportunity:

##### Increasing popularity of voice-controlled devices

High-quality audio processing is necessary for these devices to produce clear sound and recognise voices accurately. Codecs and audio amplifiers are essential for improving speaker performance and microphone sensitivity. The demand for cutting-edge audio components is rising as smart speakers, virtual assistants, and IoT-enabled gadgets become more widely used. Manufacturers are concentrating on high-performance, low-power audio solutions to satisfy the demand for portable, small devices with voice capabilities. Global market expansion and innovation are being fuelled by this trend.

#### Threat:

##### Power consumption constraints

High-quality audio output and low energy consumption are difficult for manufacturers to balance. Design flexibility is limited by the need for small, low-power components in gadgets like wearables, smartphones, and wireless earbuds. Excessive power usage can impact user experience by causing overheating and shortening battery life. Despite these limitations, R&D expenses are rising as businesses look for creative low-power alternatives. As a result, cost and technology constraints cause market expansion to stall.

## Covid-19 Impact

The COVID-19 pandemic temporarily disrupted the Audio AMPs, Codecs, and Audio IC market due to lockdowns and manufacturing shutdowns—causing supply chain constraints and slower output in consumer electronics and automotive sectors. Demand for remote communication tools, home audio systems, gaming gear, and wearable devices surged, supporting market recovery and accelerating uptake of codecs and amplifiers in consumer and automotive products. The pandemic induced chip shortages further stressed production, but rebounding electronics demand has driven renewed growth post-2021.

The analog segment is expected to be the largest during the forecast period

The analog segment is expected to account for the largest market share during the forecast period by delivering high-fidelity sound with minimal latency, making it ideal for premium audio applications. Its simplicity and low power consumption make it suitable for battery-powered devices like smartphones and portable speakers. Analog solutions offer cost-effectiveness and ease of integration in consumer electronics. The segment also benefits from increasing demand in automotive infotainment systems where real-time audio performance is crucial. As manufacturers prioritize audio quality, the analog segment continues to see strong adoption across various end-use industries.

The gaming consoles segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the gaming consoles segment is predicted to witness the highest growth rate, due to the rising demand for immersive audio experiences. Advanced audio amplifiers and codecs are essential in delivering high-quality sound effects and real-time audio processing in modern gaming systems. The growing popularity of multiplayer and virtual reality games further boosts the need for low-latency and high-fidelity audio solutions. Manufacturers are increasingly integrating premium audio technologies to enhance user engagement and competitive performance. This trend supports continuous innovation and volume growth in the audio components market.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

share due to surging demand for smartphones, smart wearables, and smart home devices. Countries like China, Japan, South Korea, and India are major manufacturing hubs, benefiting from large consumer bases and the presence of key electronics manufacturers. Government support for 5G deployment and increasing adoption of electric vehicles with in-car entertainment systems further accelerate growth. The region also benefits from cost-effective production and strong supply chain networks. Technological innovation and rising disposable incomes are expected to continue propelling the market in the coming years.

#### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to strong demand in the automotive, entertainment, and gaming industries. The region benefits from early adoption of advanced technologies like voice-controlled assistants, smart speakers, and premium audio systems. Growth is supported by high consumer spending on home audio and professional-grade audio equipment. However, stringent regulatory standards and a relatively saturated smartphone market limit expansion. Despite this, the presence of leading tech firms and continuous innovation in AI-based audio processing and noise cancellation systems sustain demand, particularly in the U.S. and Canada.

#### Key players in the market

Some of the key players profiled in the Audio AMPs and Codecs Market include Texas Instruments Incorporated, Analog Devices, Inc., Cirrus Logic, Inc., Qualcomm Technologies, Inc., Infineon Technologies AG, STMicroelectronics N.V., NXP Semiconductors N.V., Renesas Electronics Corporation, Realtek Semiconductor Corp., ESS Technology, Inc., Maxim Integrated, ROHM Co., Ltd., Yamaha Corporation, Sony Corporation and Samsung Electronics Co., Ltd.

#### Key Developments:

In January 2025, TI entered a strategic collaboration with Ignitarium to develop advanced audio solutions using TI's C7x DSP core integrated in its AM62D?Q1 and AM2754?Q1 SoCs. Ignitarium contributes specialized software engineering to optimize real-time audio processing for automotive use cases using TI audio hardware.

In August 2024, Analog Devices' acquisition of Flex Logix enhances its SoC platforms by integrating eFPGA technology, enabling customizable, power-efficient audio signal

processing. This strengthens support for embedded DSPs and codecs, facilitating adaptive, low-latency audio applications in wearables, smart devices, and automotive infotainment systems.

In September 2024, ADI entered into a strategic partnership with Tata Group to explore semiconductor manufacturing opportunities in India. While broader semiconductors, this has implications for local production of audio-related mixed-signal and codec ICs.

#### Products Covered:

Audio Amplifiers (AMPs)

Audio Codecs

#### Channel Types Covered:

Mono

Stereo

2.1 Channel

5.1 Channel

7.1 Channel

Other Channel Types

#### Technologies Covered:

Analog

Digital

Mixed-signal

### Applications Covered:

Smartphones & Tablets

Televisions

Automotive Infotainment Systems

Wearable Devices

Gaming Consoles

Home Audio Systems

Professional Audio Equipment

Smart Home Devices

IoT Devices

PCs and Laptops

Headphones & Headsets

Other Applications

### Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

## Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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