

Class D Audio Amplifier Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global class D audio amplifier market size reached US\$ 2.7 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 4.5 Billion by 2027, exhibiting a growth rate (CAGR) of 9.05% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Class D audio amplifier, or switching amplifier, is an audio modulation device used for transforming audio input into a stream of electric pulses. It consists of an embedded integrated circuit (IC) to change the low power sound to a high-level audio signal. It regenerates input audio signals with desired volume and power levels and aids in reducing the power losses within the output devices. The audio is transferred through a low-pass filter into the loudspeaker and the high-frequency pulses are blocked to minimize distortion. In comparison to the traditionally used transistors, class D amplifiers reduce power dissipation, heat generation, save circuit board space and extend the battery life of portable systems. As a result, it is widely used in home entertainment systems and consumer electronic devices, such as smartphones, televisions, desktops and laptops.

Class D Audio Amplifier Market Trends:

The global class D audio amplifier market is primarily driven by the increasing demand for consumer electronics and energy-efficient audio systems. These amplifiers are extensively used in home theaters and dedicated speaker docks for an elevated audio experience for the user. Moreover, the widespread adoption of automotive infotainment systems is providing a thrust to the market growth. Automobile manufacturers are using

efficient in-vehicle infotainment systems in mid-segment and premium vehicles for enhanced convenience, audio quality, reduce noise and distortion and refined signal processing. Additionally, various technological advancements, such as the integration of connected devices with the Internet of Things (IoT), Wi-Fi and Bluetooth technologies that connect the amplifiers and other devices to a common network, are creating a positive outlook for the market. Other factors, including rising expenditure capacities of the consumers on audio equipment, along with extensive research and development (R&D) activities, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global class D audio amplifier market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on amplifier type, device and end use.

Breakup by Amplifier Type:

- Mono-Channel
- 2-Channel
- 4-Channel
- 6-Channel
- Others

Breakup by Device:

- Television Sets
- Home Audio Systems
- Desktop and Laptops
- Automotive Infotainment Systems
- Others

Breakup by End Use:

- Automotive
- Consumer Electronics
- Others

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., Infineon Technologies AG, NXP Semiconductors, ON Semiconductor, Qualcomm Technologies Inc., Renesas Electronics Corporation, ROHM Co. Ltd., Silicon Laboratories, STMicroelectronics, Texas Instruments Incorporated and Toshiba Corporation.

Key Questions Answered in This Report:

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

What has been the impact of COVID-19 on the global class D audio amplifier market?

What are the key regional markets?

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

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

What is the breakup of the market based on the end use?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global class D audio amplifier market and who are the key players?

What is the degree of competition in the industry?

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