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Global Active Noise Control Chips Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Active Noise Control Chips market size is expected to reach $ 2413 million by 2032, rising at a market growth of 8.8% CAGR during the forecast period (2026-2032).

Active noise control chips are dedicated or semi-dedicated audio processing chips that integrate acoustic signal capture, real-time digital signal processing, anti-phase signal generation, audio encoding and decoding, and system control. They are mainly used in headphones, automotive cabins, mobile terminals, smart voice devices, and industrial equipment to reduce external noise or equipment operating noise. Their basic operating logic is to capture noise signals through microphones, use internal filters, DSPs, or dedicated hardware modules to rapidly calculate the noise waveform, and then output a sound wave with the opposite phase so that the two signals cancel each other in the user's ear canal, vehicle cabin, or target sound field. Active noise control chips deal with dynamic sound fields, so they have high requirements for algorithm latency, microphone channels, power consumption, audio synchronization, acoustic structure adaptation, and mass-production calibration.

Active noise control chips are gradually becoming fundamental experience-enabling components in personal audio devices, smart cabins, and voice interaction devices. Their main uses include music playback noise cancellation, call noise reduction, ambient transparency, in-vehicle road noise cancellation, equipment operating noise suppression, and far-field voice pickup enhancement. Technically, active noise control chips are evolving toward digitalization, hybrid architectures, adaptive control, and AI-assisted tuning. For example, Qualcomm QCC5171 integrates third-generation ANC as a built-in hardware module to reduce power consumption and latency; Renesas DA7402 supports feedforward, feedback, and hybrid topologies, with disclosed specifications

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including up to 35 dB noise cancellation, 25 microseconds input-to-output latency, and 8.5 mW stereo hybrid ANC playback power consumption.

The upstream market for active noise control chips mainly includes wafer foundry, analog and mixed-signal IP, audio DSPs, low-power Bluetooth, MEMS microphones, power management, packaging and testing, acoustic simulation software, and algorithm tuning tools. The downstream market covers headphone brands, smartphone manufacturers, automotive electronics suppliers, smart hardware companies, and industrial equipment manufacturers. Upstream process and packaging costs affect chip pricing and delivery capability; microphone consistency and acoustic structure affect the final noise cancellation effect; and downstream terminal brands' requirements for sound quality, battery life, size, and call experience continue to drive chip integration. In terms of the policy environment, although active noise control chips are not a standalone policy-supported category in most countries, they are indirectly supported by policies related to semiconductor localization, smart terminal upgrades, automotive electronics development, and supply chain security. China's efforts to promote stable growth in the electronic information manufacturing industry and improve the supply capacity of key components, as well as the United States' and Europe's efforts to strengthen local semiconductor manufacturing and supply chain resilience, will improve the industrial foundation for audio chips, automotive electronics chips, and smart hardware chips, while increasing terminal manufacturers' attention to localization, stable supply, and alternative solutions.

In the next few years, prices of active noise control chips are expected to show structural divergence. Integrated ANC SoCs for ordinary TWS earbuds will still face downward pressure on unit prices due to intensifying competition and improved supply of mature process capacity. In contrast, high-end hybrid ANC, adaptive ANC, multi-microphone, low-latency, automotive-grade, and AI voice enhancement solutions will show stronger price resilience because of higher barriers in algorithms, tuning, certification, and customer design-in. In terms of production volume, personal audio devices will remain the largest shipment base, while open-ear earbuds, over-ear headphone upgrades, and mid-range TWS penetration will continue to contribute scale. Automotive acoustic systems, smart cabins, industrial equipment noise reduction, and conferencing voice devices will bring new incremental demand, although their adoption cycles are relatively long. In the long term, the market will not rely solely on headphone replacement demand. The industry's value focus will shift from the cost of a single chip to algorithm ecosystems, hardware-software collaboration, and stable terminal experience, while gradually penetrating the automotive industry and industrial manufacturing fields.

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This report studies the global Active Noise Control Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Active Noise Control Chips and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Active Noise Control Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Active Noise Control Chips total production and demand, 2021-2032, (Million Units)
Global Active Noise Control Chips total production value, 2021-2032, (USD Million)
Global Active Noise Control Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)
Global Active Noise Control Chips consumption by region & country, CAGR, 2021-2032 & (Million Units)
U.S. VS China: Active Noise Control Chips domestic production, consumption, key domestic manufacturers and share
Global Active Noise Control Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)
Global Active Noise Control Chips production by Signal Processing Method, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)
Global Active Noise Control Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Active Noise Control Chips market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Qualcomm, Airoha Technology, Bestechnic, Bluetrum, Zhuhai JieLi Technology, Analog Devices, Renesas Electronics, NXP, ams OSRAM, Cirrus Logic, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Active Noise Control Chips market

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Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Units) and average price (US$/Unit) by manufacturer, by Signal Processing Method, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Active Noise Control Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Active Noise Control Chips Market, Segmentation by Signal Processing Method:

Analog ANC Chip

Digital ANC Chip

Mixed-Signal ANC Chip

Global Active Noise Control Chips Market, Segmentation by Microphone Channel Count:

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Single-Microphone ANC Chip

Dual-Microphone ANC Chip

Three-Microphone ANC Chip

Multi-Microphone ANC Chip

Global Active Noise Control Chips Market, Segmentation by Operating Principle:

Feedforward ANC Chip

Feedback ANC Chip

Hybrid ANC Chip

Other ANC Chip

Global Active Noise Control Chips Market, Segmentation by Application:

Personal Audio Devices

Automotive Acoustic Systems

Industrial Equipment Noise Control

Other Applications

Companies Profiled:

Qualcomm

Airoha Technology

Bestechnic

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Bluetrum

Zhuhai JieLi Technology

Analog Devices

Renesas Electronics

NXP

ams OSRAM

Cirrus Logic

XMOS

Realtek

Asahi Kasei Microdevices

Apple

Sony

Key Questions Answered:
1. How big is the global Active Noise Control Chips market?
2. What is the demand of the global Active Noise Control Chips market?
3. What is the year over year growth of the global Active Noise Control Chips market?
4. What is the production and production value of the global Active Noise Control Chips market?
5. Who are the key producers in the global Active Noise Control Chips market?
6. What are the growth factors driving the market demand?

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Contents

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5 MARKET ANALYSIS BY SIGNAL PROCESSING METHOD

6 MARKET ANALYSIS BY MICROPHONE CHANNEL COUNT

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7 MARKET ANALYSIS BY OPERATING PRINCIPLE

8 MARKET ANALYSIS BY APPLICATION

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9 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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