

# **Mixed Signal IC Market Report by Type (Mixed Signal SoC, Microcontroller, Data Converter), End Use (Consumer Electronics, Medical and Healthcare, Telecommunication, Automotive, Military and Defense), and Region 2024-2032**

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## **Abstracts**

The global mixed signal IC market size reached US\$ 121.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 184.0 Billion by 2032, exhibiting a growth rate (CAGR) of 4.6% during 2024-2032.

Mixed-signal integrated circuits (ICs) combine analog and digital circuitry on a single semiconductor die for the highly integrated, sophisticated functionality of digital devices. It relies on data converters to translate analog data streams into electronic signals. It is considered a vital component in frequency modulation (FM) tuners that are used in media players with built-in digital amplifiers. At present, digital radio chips, signal converters, delta-sigma modulation converters, and error detection and correction chips are some of the commonly available mixed-signal ICs around the world.

### **Mixed Signal IC Market Trends:**

The escalating demand for smartphones with more advanced capabilities and internet connectivity than regular mobile phones represents one of the major factors impelling the market growth. Moreover, boosting sales of fast and miniature consumer electronics on account of rapid urbanization and inflating disposable income of individuals are contributing to the market growth. Besides this, mixed-signal ICs are utilized in cars for providing the mechanism for basic functions, such as climate control, airbag deployment, and entertainment systems. This, in confluence with the increasing need for alternative fuel vehicles due to the implementation of stringent policies by governments of numerous countries regarding vehicle efficiency, is influencing the

market positively. Apart from this, mixed-signal ICs play a significant role in the healthcare industry as they find extensive applications in modern implantable medical devices and imaging systems that are essential for the diagnosis, treatment, management, and monitoring of patients. Additionally, the rising demand for diagnostic tools and techniques on account of the growing prevalence of chronic diseases is driving the adoption of mixed-signal ICs across the globe. Furthermore, the development of innovative mixed-signal ICs is projected to expand their utilization as essential tools in industrial fields worldwide.

#### Key Market Segmentation:

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

#### Breakup by Type:

- Mixed Signal SoC
- Microcontroller
- Data Converter

#### Breakup by End Use:

- Consumer Electronics
- Medical and Healthcare
- Telecommunication
- Automotive
- Military and Defense

#### 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., Cirrus Logic Inc., Dialog Semiconductor PLC (Renesas Electronics Corporation), EnSilica Limited, Infineon Technologies AG, Intel Corporation, Microchip Technology Inc., National Instruments Corporation, Renesas Electronics Corporation, STMicroelectronics, Telephonics Corporation (Griffon Corporation) and Texas Instruments Incorporated.

#### Key Questions Answered in This Report

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

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