

## **Global Application Specific Computer Analog IC - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

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### **Report description:**

The Global Application Specific Computer Analog IC Market is expected to register a CAGR of 5.3% during the forecast period.

#### Key Highlights

- An Application-Specific Integrated Circuit (ASIC) is an integrated circuit (IC) developed explicitly for a specific application. ASICs with over one billion transistors can now be produced using modern processing techniques (the basic building block of an IC). Because of the incredible amount of transistors available, extremely sophisticated and powerful designs need to be implemented on an ASIC.
- LED drivers, timing control, radio frequency (RF) transceivers, Serializer/Deserializer (SerDes), touch sensors, and display drivers are some of the application-specific analog ICs. General-purpose analog integrated circuits (ICs) are utilized in various applications such as amplifiers, comparators, and data converters.
- Application-specific chips are primarily utilized in consumer electronics and communications equipment, but they also have a considerable presence in the automobile sector. This market will likely expand throughout the forecasted period due to rising consumer electronics demand and production. Simultaneously, demand for smartphones and wearables is driving demand for this Application Specific Computer Analog IC Market.
- The high cost of manufacturing custom circuits, circuit design costs, and functional reliability difficulties will be the primary restraints that will affect the growth of the Application Specific Integrated Circuit Market.
- The COVID- 19 scenario has impacted numerous industries, including the integrated circuit business. It has been shown that the death and injury rates have increased in the majority of nations. As a result, there has been an increase in the need for online work, and the requirement for new technology is growing. Furthermore, the market analysis has boosted the functioning of automated technologies for proper functioning at an incredible pace. Despite this, it has been seen that the financial profits of all industries have suffered due to the pandemic outbreak. As a result, it devotes itself to portraying that the production and supply

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chain industry has resumed improved market growth in the coming years.

## Application Specific Computer Analog IC Market Trends

Consumer Electronics and Automotive Industry drive growth towards the market

- The opportunity arises, which leads to possible prospects within the worldwide regional ASIC market. As a result, the automobile sensor and its access memory towards the internet protocol cores and its initial assessment of the smooth working have provided a deeper grasp of the current trends. As a result, it can be concluded that this specific market optimizes its operations and has implemented a plan for maintaining a competitive advantage. The application's primary element is the increasing consumer electronics industry demand.
- The expansion of technologies such as the Internet of Things is used in smart electronic devices that are predicted to be employed in practically all industrial verticals, which will drive growth in the future. The emerging economies with government policies encourage the development of more electronic manufacturing units to increase the global analog IC market share.
- The increased usage of analog integrated circuits in LED applications such as traffic light indicators and data communication systems for power efficiency is likely to fuel market growth. The use of analog integrated circuits in medical and healthcare electronics and green energy management for residential and commercial buildings or premises propels the worldwide IC industry. The vehicle sector's usage of electronics in complex engine and safety controls, navigation, audio/video systems, hybrid electric drives, and LED lighting is likely to fuel Analog IC market demand. The advancement of the automotive sector in nations such as the United States, Australia, Norway, France, and Germany is predicted to impact the Analog IC market growth positively.
- The Advanced Driver Assistance System sector is expected to develop at a faster compound annual growth rate during the forecast period. The rising use of automotive integrated circuits, such as ICs, assures the safety of drivers and vehicles in this application. Furthermore, the growing use of sophisticated driver assistance systems in the automotive sector will enhance the use of automotive integrated circuits, accelerating the market development of this category even further.

## Asia-Pacific to Hold the Largest Market Share

- The Asia-Pacific is the fastest-growing market that has witnessed the widespread presence of electronic component manufacturers. Furthermore, the region's growing tech-savvy customer base propels the industry. Moreover, the region's increased penetration of smartphones and computer hardware drives the industry. The growing need for lightweight and small electronic gadgets drives the application-specific computer analog IC market growth.
- Additionally, rising passenger safety concerns and favorable government initiatives regarding vehicle regulations are some of the important factors driving the growth of the APAC application-specific computer analog IC Market.
- The government is investing money in developing the semiconductor market. For Instance, In December 2021, the Indian government authorized the 'Establishment of Gallium Nitride (GaN) Ecosystem Enabling Centre and Incubator for High Power and High-Frequency Electronics' to boost semiconductor manufacturing. The project is being carried out by Society for Innovation and Development (SID) at the Centre for Nano Science and Engineering (CeNSE), Bengaluru, under the auspices of the Indian Institute of Science (IISc) at a total cost of Rs 298.66 crore.
- With the constant expansion of China's economy and new applications such as cloud computing, 5G, Internet of Things, artificial intelligence (AI), and intelligent and connected cars, demand for China's integrated circuit market is expected to continue growing. Qiao Yueshan, head of the electronic information department at China's Ministry of Industry and Information Technology, said China's Integrated Circuit Industry growth rate was four times the world growth rate during the country's 13th Five-Year Plan period.

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## Application Specific Computer Analog IC Industry Overview

The Global Application Specific Computer Analog IC Market is highly fragmented. The market is quite competitive. Companies are progressively investing in developing computer analog ICs to sustain themselves in the competitive environment. Key players in the market are STMicroelectronics N.V, STMicroelectronics N.V, Texas Instruments Incorporated, Microchip Technology, and Honeywell International Inc.

- In March 2022, STMicroelectronics released a new version of a 2.5V rad-hard digital-to-analog converter for next-generation satellite applications. The RHRDAC121 radiation-hardened digital-to-analog converter (DAC) from STMicroelectronics runs at 2.5V for usage in current, low-power system designs that older 3.3V components cannot support.
- In April 2022, The AMOLED power-management IC from STMicroelectronics improves viewing quality and battery life in portable devices. The new fully integrated Power-Management IC (PMIC) from STMicroelectronics for AMOLED displays combines a low quiescent current with more flexibility to prolong the battery life of portable devices.

### Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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