

Global General Purpose Analog IC - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Global General Purpose Analog IC Market is expected to register a CAGR of less than 5.3% during the forecast period.

Growing environmental awareness is also driving the industry, creating cities with innovative grid systems as an inherent feature. As a result, the demand for Power management analog IC systems to handle wired and non-wired connections is growing. Furthermore, increasing automation in the automotive industry is helping to drive market growth. Car manufacturers use Power management analog IC systems to regulate excessive battery voltage fluctuations, improve battery life, and run security systems.

During the projected period, the market for General Purpose Analog ICs is expected to be driven by the growing internet of things (IoT) usage. End users can sense, understand, and transfer intelligent data due to analog ICs. Because of the numerous advantages of using these ICs across a wide range of real-time connected devices and applications, the internet of things is predicted to promote the industry's growth. Further, general-purpose analog ICs have low power consumption and efficient signal processing capabilities, making them ideal for setting up an automated device ecosystem.

Additionally, the need to expand the production capabilities of various end-user industries is aiding the growth of the studied market. For instance, in January 2021, the Japanese government revealed that they have been asking Taiwanese authorities to press contract chipmakers to increase output. In January 2021, Japan-based semiconductor vendor Renesas Electronics announced plans to lend part of its capacity to manufacture automotive semiconductors designed by domestic rival Asahi Kasei. The move eases concerns about semiconductor supplies from Asahi Kasei. Under an arrangement, Renesas will produce analog integrated circuits (ICs) for crystal oscillators, used as timing devices in automotive applications like collision avoidance systems.

On the flip side, the outbreak of COVID-19 across the globe has significantly disrupted the supply chain and production of the

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studied market in the initial phase of 2020. For circuits and chipmakers, the impact was more severe. Due to labor shortages, many packages and testing plants in the Asia-Pacific region reduced or even suspended operations. This trend created a bottleneck for end-product companies that depend on semiconductors.

However, according to the Semiconductor Industry Association, after Q1 of 2020, the semiconductor industry started the recovery. Despite logistical challenges related to the coronavirus, semiconductor facilities in Asia-Pacific continued to function normally with high-capacity rates. Moreover, most semiconductor operations in various countries, such as South Korea, continued uninterrupted, and chip exports grew by 9.4% in 2020. The global semiconductor market is also expected to recover robustly during the forecast period.

General Purpose Analog IC Market Trends

Increasing Factory Automation is Expected to Drive the Market's Growth

The automation industry has been revolutionized by combining digital and physical manufacturing aspects to deliver optimum performance. Further, the focus on achieving zero waste production and a shorter time to reach the market has augmented the market's growth.

The automotive industry is one of the prominent sectors that hold a significant in the worldwide automated manufacturing facilities. It is observed that the production facilities of various automakers are automated to maintain accuracy and efficiency. Further, the growing trend of replacing conventional vehicles with EVs is expected to augment the automotive industry's demand. One of the automotive industry's primary concerns is the project's duration. Quick return-on-investment projects, along with low-cost automation and cost innovation, may help the manufacturers improve competitiveness through efficiency improvement.

Fuelled by Industry 4.0, the United States continues to innovate and consolidate its position in the global market in the smart factory automation and industrial control systems industry. The embracing of smart technologies in the studied market has also positively imparted a direct impact on the national economy. The United States is a substantial market for vendors offering solutions for Smart Factories and is expected to grow significantly over the forecast period, owing to the early adoption of factory automation. Further, the developed infrastructure for automation in the country is also attracting players to invest in smart factory solutions.

For instance, in July 2021, Peak Performance Inc., in collaboration with the Tennessee Chamber/Tennessee Manufacturers Association and the Deutsche Messe Technology Academy, launched the first Smart Factory Institute in the United States. The Smart Factory Institute is a US-based organization that will provide manufacturers with connections, collaborative ties, and certifications to help them improve their manufacturing processes by giving them access to innovative manufacturing technology. Such developments would increase the penetration rate of factory automation, thereby facilitating the growth of the general purpose analog IC market.

Additionally, Australia and Singapore have witnessed a decline in the industrial sector over the past five years. For instance, According to the Australian Bureau of Statistics, the Gross value added (GVA) by the manufacturing industry in Australia decreased significantly by AUD 51 billion in 2021. Significant initiatives have resulted in increased attention being given to the digital economy and Industry 4.0 in the region, such as Singapore's Smart Nation and Committee for the Future Economy initiatives, Indonesia's "2020 Go Digital Vision", the "Thailand 4.0" initiative, the Vietnamese government's Industry 4.0 initiatives, amongst others, which is bringing increased scope for smart factory automation.

Further, the Chinese government's programs, such as the Made in China 2025 plan, promote the use of R&D in factory automation and technologies and its investments. Also, as most of the automation equipment is imported from Germany and Japan, the 'Made

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in China' initiative aims to expand the country's domestic production of automation hardware and equipment. Moreover, at the 2020 National People's Congress, the CCP announced that in addition to doubling down on its Made in China 2025 and China Standards 2035 initiatives, it announced to spend approximately USD 1.4 trillion on a digital infrastructure public spending program. China's New Infrastructure initiative presents exciting opportunities for global companies.

The increase in the need to reduce manufacturing costs and applications of the Internet of Things and machine-to-machine (M2M) technologies are fueling the market's growth in several regions.

The Asia Pacific Region is Expected to Witness a High Market Growth

The Asia Pacific region has a robust demand and manufacturing capabilities for consumer electronics. For instance, according to the National Bureau of Statistics of China, almost 1.5 billion cell phones will be produced in China in 2020. The nation produced 212.71 million units of cell phones in January/February 2022. China has been one of the leading global cell phone manufacturing countries and may continue to develop steadily soon. In addition to its established status as a manufacturing country for mobiles, China's domestic mobile phone market has become one of the largest cell phone markets in the world.

Further, according to the National Bureau of Statistics of China, the production of finished computers in China amounted to 63.87 million units in Jan/Feb 2021 and 61.85 million units in Jan/Feb 2022, respectively. In April 2022, around 32.66 million finished computers were produced in China. The massive electronics manufacturing capabilities of the region offer lucrative opportunities for the growth of the general purpose analog IC market.

Further, Japan has been at the forefront of the adoption of the latest technologies. For instance, the Japanese government announced Connected Industries in response to the German government's "Industry 4.0" program, and the momentum for a new manufacturing revolution is rising. The push toward smart factories is accelerating with technological advancements such as digitalization, production technology sophistication, and robotics to achieve higher efficiency in manufacturing.

The Smart Factory is a concept that attempts to optimize manufacturing operations and increase the efficiency and productivity of the entire factory, including digitalization and automation using robots and IoT to gather and analyze various data in the factory. For instance, as of April 1, 2021, JGC Japan Corporation launched its "Next Factory Solution Department.

Moreover, as electronics, automotive, and manufacturing sectors are evolving at a significant growth rate in economies like South Korea, Japan and India, there is a tremendous potential for growth in these regional markets. An upsurge in infrastructure investment by the government, coupled with the 'Make in India' initiative, is expected to drive the demand for various sensors used in them, thereby driving the demand for the studied market. The Government of India seeks to rise the manufacturing sector's share of the gross domestic product (GDP) to 25% by 2022, from 17% in 2018. Thus, manufacturers anticipate incorporating Industry 4.0 and other digital technologies to achieve this target. The adoption of automation technologies, IoT, and AI, aids the growth of the studied market.

General Purpose Analog IC Industry Overview

The Global General Purpose Analog IC Market is a moderately fragmented market with major players like Texas Instruments Incorporated, Microchip Technology Inc., NXP Semiconductors, Analog Devices, etc. Companies must constantly adapt to the latest technologies, innovate comprehensive products and processes, and efficiently manage production costs.

May 2022 - Tower Semiconductor, a prominent foundry of high-value analog semiconductor solutions, announced the expansion of its power management platforms with the release of the second generation of its state-of-the-art 65nm BCD, expanding the operation to 24V and decreasing R_{ds(on)} by 20%. The company is also adding deep trench isolations to its 180nm BCD platform,

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allowing up to 40% die size reduction for voltages up to 125V. The new releases address the increasing demand for higher power ICs at higher voltages and power efficiency, further enhancing Tower's leading market position in support of the power IC market.

September 2021 - Analog Devices, Inc. launched a new MAX77659 single-inductor multiple-output (SIMO) power management IC (PMIC) with an integrated switch-mode buck-boost charger, which charges wearables, hearables, and Internet of Things (IoT) devices quickly. The MAX77659 SIMO PMIC delivers over four hours of playtime after a short, ten-minute charge and uses a single inductor to power multiple rails, reducing the bill of materials (BOM) by 60% and shrinking total solution size by 50%.

Additional Benefits:

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

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