

Amplifier and Comparator Market Forecast to 2030 - Global Analysis by Type (Amplifier and Comparator), Application (Industrial Sector, Communications Sector, Computing Devices, Consumer Electronics Devices, Automotive, Military & Aerospace, and Others)

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Abstracts

The amplifier and comparator market is expected to grow from US\$ 11.92 billion in 2022 to US\$ 19.03 billion; it is estimated to register a CAGR of 6.3% during the forecast period.

The electronic mode of transportation is perceived to benefit the environment and reduce fuel consumption. Many governments across the world have embraced the Electric Vehicles Initiative (EVI), a multi-government policy forum coordinated by the International Energy Agency (IEA) to accelerate the introduction and adoption of electric vehicles worldwide. According to the IEA, 16 countries are the current participants of this program: Canada, Chile, China, Finland, France, Germany, India, Japan, the Netherlands, New Zealand, Norway, Poland, Portugal, Sweden, the UK, and the US. An electric battery is a core component of the electric mode of transportation. In these batteries, the output of the comparator is used to alert a microcontroller regarding their discharged or low power status. Also, the amplifier is used in EV battery management, and the isolated amplifier offset determines the initial precision of the current sense. Thus, the large-scale application of amplifiers in batteries required for electronic transportation would bolster the consumption of amplifiers and comparators in the future, and fuels amplifier and comparator market size.

Based on application segment, the amplifier and comparator market share is

segmented into industrial sector, communications sector, computing devices, consumer electronics devices, automotive, military & aerospace, and others. Amplifiers are used in radios, cell phones, internet modems, landline systems, optical fibers, data centers, etc., to send signals over long distances. They aid in increased data transfer rates and usability in the communication sector, which makes them a crucial component of satellite communication equipment. In telecommunications applications, comparators are frequently used to monitor or control physical parameters such as voltage, current, and pressure. For instance, the International Telecommunication Union (ITU) reported that ~5.3 billion people, i.e., 66% of the global population, were using the internet in 2022. The number represents an increase of 6.1% compared to 2021. A surge in the use of internet modems triggers the demand for amplifiers, as they maximize signals received by an internet modem, thereby fueling to amplifier and comparator market size.

The automotive industry in North America has a potential influence on the region's economy. The operations of the automotive industry were temporarily stopped, which hampered the business dynamics in the first half of 2020. According to United Nations Conference on Trade and Development (UNCTAD), North America experienced a decline in auto exports in 2020 compared to 2019. The COVID-19 pandemic disrupted exports of parts and interrupted large-scale manufacturing across the region. Furthermore, assembly plants in the US were also shut down. According to a study by Wipro, the global sales of passenger cars fell to 60.5 million units in 2020, from 79.6 million units in 2017. The decline in the production of passenger cars has impacted the manufacturing and supply of automotive electronics. Disruption in the supply chain due to travel restrictions was limiting supply and production activities, including the amplifiers and comparators, during the pandemic, impacting amplifier and comparator market growth. However, since 2021, the automotive industry started recovering rapidly. Factories and many manufacturing plants are nearly back to production levels after the temporary shutdown during the pandemic. The restart of the manufacturing units of the automotive sector contributed to the demand for amplifiers and comparators in the automotives. This factor has contributed to the recovery of the amplifier and comparator market.

The growing adoption of the Internet of Things (IoT) and artificial intelligence (AI) promotes the growth of various technology-related firms in the country. Furthermore, the presence of various key market players, such as Analog Devices Inc, Broadcom Inc, Microchip Technology Inc, and Skyworks Solutions Inc, in the amplifier and comparator market, stimulates the demand for amplifiers and comparators in the US market. The US aerospace & defense market is also witnessing stupendous growth because of the government's surging investment in defense equipment. According to the report

published by the Aerospace Industries Association (AIA) in 2021, the air & defense industry's exports of the US rose by 11.2% to a total value of US\$ 100.4 billion. The industry generated US\$ 391 billion in economic value, contributing 1.7% of the total nominal GDP of the country. The rising sales in the air & defense industry facilitate the development of various end-use industries. Amplifiers and comparators are used in aerospace systems for signal conditioning, amplification, and comparison. Thus, the growing aerospace industry of the US is driving the amplifier and comparator market growth.

Analog Devices Inc, Broadcom Inc, STMicroelectronics, Microchip Technology Inc, NXP Semiconductors, On Semiconductor, Renesas Electronics Corporation, Skyworks Solutions Inc, Texas Instruments Inc, and ABLIC Inc are among the key amplifier and comparator market players profiled during the study on the market. Several other major amplifier and comparator market players were studied and analyzed during this market research study.

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