

North America Amplifier and Comparator Market Forecast to 2030 – COVID-19 Impact and Regional Analysis – by Type (Amplifier and Comparator) and Application (Industrial Sector, Communications Sector, Computing Devices, Consumer Electronics Devices, Automotive, Military & Aerospace, and Others)

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Abstracts

The North America amplifier and comparator market is expected to grow from US\$ 2,532.58 million in 2023 to US\$ 4,015.93 million by 2030; it is estimated to grow at a CAGR of 6.8% from 2023 to 2030.

Adoption of Advanced Driver-Assistance Systems

The automotive industry is growing rapidly with significant digital transformation in the design and development of a wide range of components, such as infotainment, anti-lock braking systems (ABS), and electronic displays. The ongoing digital transformation across the automotive industry has been triggering the demand for advanced driver-assistance systems (ADAS). The increasing emphasis on road safety, government regulations mandating the use of advanced safety features, and rising demand for luxury vehicles further propel the adoption of ADAS. Thus, various automotive manufacturing giants are focusing on ADAS technology.

The functioning of ADAS systems is based on LiDAR technology, wherein trans-impedance amplifiers (TIA) and comparators play vital roles in receiving signals. TIA is used to detect the reflected signal, and once it has been successfully detected, a comparator indicates that signal. Thus, the increasing adoption of ADAS and

manufacturing of ADAS-enabled vehicles drive the amplifier and comparator market growth.

North America Amplifier and Comparator Market Overview

The North America amplifier and comparator market is segmented into the US, Canada, and Mexico. The availability of well-established infrastructure in developed countries, such as the US and Canada, helps manufacturing firms enhance their production capabilities. Across North America, technological advancements have led to high adoption of advanced process control technologies in the manufacturing industry, boosting the region's manufacturing output. According to the National Institute of Standards and Technology, the manufacturing sector in the US was valued at US\$ 2.3 trillion and held a 12.0% share of its total GDP in 2021. The US is the second-largest country in the world in terms of manufacturing machinery and equipment production. The growing applications of sensors in various industrial processes are contributing to the growth of the amplifier and comparator market. As a result, the growing industrial sector in North America presents a significant opportunity for amplifiers and comparators. These components are widely used in industrial automation, robotics, process control, and instrumentation applications. The need for precise signal amplification, measurement accuracy, and reliable control systems drives the demand for amplifiers and comparators in industrial settings.

North America Amplifier and Comparator Market Revenue and Forecast to 2030 (US\$ Million)

North America Amplifier and Comparator Market Segmentation

The North America amplifier and comparator market is segmented based on type, application, and country. Based on type, the North America amplifier and comparator market is bifurcated into amplifier and comparator. The amplifier segment held a larger market share in 2023.

Based on application, the North America amplifier and comparator market is segmented into industrial sector, communications sector, computing devices, consumer electronics devices, automotive, military & aerospace, and others. The industrial sector segment held the largest market share in 2023.

Based on country, the North America amplifier and comparator market is segmented into the US, Canada, and Mexico. The US dominated the North America amplifier and

comparator market share in 2023.

ABLIC Inc; Analog Devices Inc; Broadcom Inc; Microchip Technology Inc; NXP Semiconductors; On Semiconductor; Renesas Electronics Corporation; Skyworks Solutions Inc; STMicroelectronics NV; and Texas Instruments Inc are the leading companies operating in the North America amplifier and comparator market.

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