

Active Electronic Components Market to Hit USD 652.58 Billion due to Rising Demand for Smart Devices and 5G Deployment

Active Electronic Components Market Size, Share, Growth, Trend, Global Industry Overview and Regional Analysis, Forecast 2023 - 2030

AUSTIN, TEXAS, UNITED STATES, January 18, 2024 /EINPresswire.com/ -- SNS Insider published an exclusive report, titled, "[Active Electronic Components Market Size, Share & Segment By Product, By End-User, By Regions, And Global Forecast 2023-2030](#)".

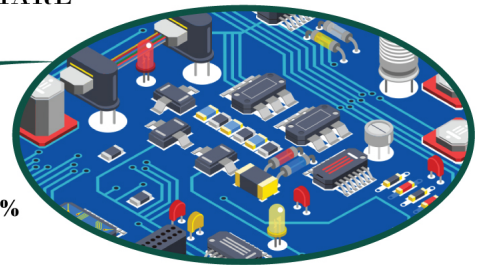
ACTIVE ELECTRONIC COMPONENTS
MARKET SIZE AND SHARE
2023-2030

USD 325.11 BN
IN 2022



CAGR OF 9.1%

USD 652.58 BN
BY 2030



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Active Electronic Components Market

The market size of Active Electronic Components amounted to USD 325.11 billion in 2022 and is projected to achieve USD 652.58 billion by 2030. This trajectory indicates a notable compound annual growth rate (CAGR) of 9.1% over the forecast period from 2023 to 2030.

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Active electronic components play a pivotal role in modern electronic systems, serving as the dynamic elements that actively control and manipulate electrical signals. These components are distinguished by their ability to amplify, switch, or otherwise modify electrical signals, enabling the creation of sophisticated electronic devices. The scope of active electronic components market encompasses a wide range of devices, including transistors, operational amplifiers, integrated circuits, and more. These components are fundamental building blocks in the design and functionality of electronic circuits, facilitating tasks such as signal amplification, signal conditioning, and signal processing.

In the ever-expanding landscape of electronic engineering, active electronic components continue to undergo rapid development, with ongoing innovations pushing the boundaries of performance and efficiency. Engineers and researchers are continuously exploring novel materials, design methodologies, and fabrication techniques to enhance the capabilities of these

components. This dynamic field involves the integration of cutting-edge semiconductor technologies, enabling the creation of smaller, more powerful, and energy-efficient devices. The overview of active electronic components market extends beyond their individual functionalities, encompassing their collective impact on shaping the landscape of electronic systems.

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- Infineon Technologies
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- Intel
- Broadcom
- Microchip Technology
- Monolithic Power
- NXP Semiconductors
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The rapid evolution of technology remains a primary growth driver for the active electronic components market. Breakthroughs in semiconductor manufacturing, integration of advanced materials, and the rise of cutting-edge design architectures contribute to the market's expansion. The escalating demand for smart devices, including smartphones, tablets, and wearables, is a key driver. As consumers seek enhanced functionality and performance, manufacturers are compelled to integrate more sophisticated active electronic components into their products. The Internet of Things (IoT) continues to play a pivotal role in market growth. The surge in connected devices across various industries necessitates the deployment of active electronic components to facilitate seamless communication, data processing, and overall system functionality.

The global active electronic components market faces challenges related to supply chain disruptions. Factors such as geopolitical tensions, natural disasters, and the ongoing semiconductor chip shortage pose significant threats, hindering the seamless flow of components. The rollout of 5G networks presents a promising opportunity for the active electronic components market. The increased data speeds and connectivity requirements associated with 5G technology necessitate advanced components to support the infrastructure. The growing emphasis on sustainability and environmental consciousness opens avenues for the development and adoption of eco-friendly electronic components. Manufacturers exploring green technologies stand to gain a competitive edge in the market.

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BY PRODUCT

- Optoelectronic Devices
- Vacuum Tubes
- Semiconductor Devices
- Display Technologies

BY END-USER

- Healthcare
- Consumer Electronics
- Telecommunication
- Manufacturing
- Information Technology
- Automotives
- Aerospace And Defense

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The ongoing global recession has cast a profound impact on various sectors, and the active electronic components market is no exception. While economic downturns traditionally trigger a decline in consumer spending and business investments, leading to reduced demand for electronic devices, there are nuanced implications for active electronic components. On the negative side, companies may experience a slowdown in production, impacting the sales of components such as microprocessors, sensors, and integrated circuits. Supply chain disruptions and a decrease in consumer purchasing power may further exacerbate challenges within the market. However, on a positive note, the recession may drive innovation and cost-cutting measures, leading to increased efficiency in the production of active electronic components. As businesses seek ways to adapt to the economic downturn, there could be a surge in demand for components that facilitate automation and process optimization.

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The Russia-Ukraine War has sent shockwaves through global markets, and the active electronic components sector is grappling with the consequences. The conflict has resulted in geopolitical uncertainties, disrupting the supply chains of key electronic component manufacturers. Regions heavily dependent on Ukrainian and Russian suppliers may face shortages, impacting production timelines and costs. Escalating tensions can lead to increased prices for raw materials like metals and minerals used in manufacturing, putting additional pressure on profit

margins for electronic component producers. On the flip side, as geopolitical tensions drive countries to reassess their reliance on specific regions for electronic components, there might be opportunities for diversification and localization within the market.

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A comprehensive regional analysis of the active electronic components market is essential to discern the unique dynamics shaping its landscape. Different geographical areas exhibit distinct market trends influenced by factors such as technological infrastructure, regulatory frameworks, and economic stability. In North America, for instance, a robust technological ecosystem and a high rate of innovation contribute to a steady demand for advanced electronic components. Europe, with its emphasis on sustainability and digital transformation, fosters a market driven by energy-efficient components and smart technologies. Meanwhile, the Asia-Pacific region remains a powerhouse for electronic manufacturing, with countries like China, Japan, and South Korea playing pivotal roles in production and consumption.

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In its latest report on the active electronic components market, SNS Insider delves into the dynamic landscape of electronic components that play a pivotal role in various devices and systems. The comprehensive analysis encompasses emerging trends, market drivers, and key challenges shaping the industry. The report scrutinizes market dynamics, including the influence of IoT proliferation, demand for energy-efficient solutions, and the escalating need for miniaturization. Furthermore, SNS Insider provides strategic insights into the competitive landscape, market segmentation, and regional trends, offering stakeholders a nuanced understanding of the evolving market conditions.

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Akash Anand
SNS Insider Pvt. Ltd
+1 415-230-0044
info@snsinsider.com
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