

Electronic Components Market Study

About Us

Straits Research Pvt Ltd is a leading market research firm offering comprehensive insights on market demand, trends, growth prospects and regional analysis. With over 35 years of combined experience, we provide premium qualitative insights on consumer preferences, regulatory landscape, and technological advancements along with quantitative insights on industry market size, global economic scenario and revenue opportunities. These reports are backed by high-quality data sourced from primary sources and large secondary databases. With analyst perspectives and insights included in every report, Straits Research delivers comprehensive market intelligence and detailed analysis to help clients make informed decisions.

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Regional Overview

Company Profiles

Kyocera Electronics Devices

Advanced Micro Devices

Analog Devices, Inc.

Broadcom Inc.

Hitachi Ltd.

Infineon Technologies AG

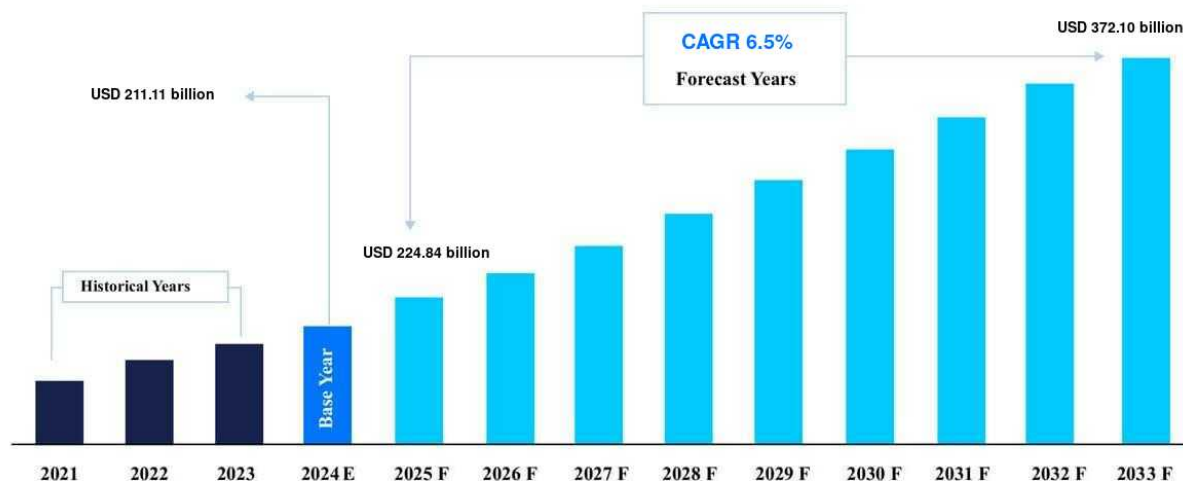
Intel Corporation

Monolithic Power Systems, Inc.

Murata Manufacturing Co., Ltd.

NXP Semiconductors NV

Note: More company profiles available on full reports.



Source: Straits Research

Emerging Countries

United States

Germany

China

Emerging Companies

Kyocera Electronics Devices

Advanced Micro Devices

Broadcom Inc

Top 5 Company Market Share



Total
38%

Top 5 company market share

Market Trends

Growth Trends

- Increasing demand for consumer electronics
- Growth in the automotive and telecommunication sectors driving the demand for electronic components
- Increasing investment in research and development activities for advanced electronic components.
- Integration of advanced technologies such as AI, IoT, and 5G in electronic devices.
- Growth driven by the development of new markets such as electric vehicles, smart homes, and others.
- Increased focus on energy-efficient and environmentally-friendly electronic components.

Factors considered while calculating market size and share

- Number of manufacturers or suppliers in the electronic components market.
- Volume and value of products sold in a given period.
- The pricing trends and strategies of different market players.
- Import and export values of electronic components.
- Market trends and dynamics such as technological advancements, product innovations, and changes in consumer demand.
- The potential of new markets and the size of old/existing markets.

Key Market Indicators

- Growth rate of the electronic components industry.
- Market size by regions, product type, application, price range, and manufacturers.
- Consumer spending on electronic goods and services.
- Investment in research and development in the electronics industry.
- Rate of product innovations and technological advancements
- Number and capacity of manufacturing facilities for electronic components.
- Regulatory environment and policies in different regions/countries.

Failure of electronic components

Electronic components have a wide variety of modes of failure, such as excess temperature, excess current or voltage, ionizing radiation, mechanical shock, stress or effects, and many other factors that can be responsible for failures. Problems in the product packaging can cause failures in semiconductor devices due to corrosion, device mechanical tension, or open or short circuits.

Some of the common failures are packaging failures, contact failures, printed circuit board failures, relay failures, semiconductor failures, passive element failures, and MEMS failures. The recurring failures are a cause for concern, thereby restraining the growth of the market.

Market Trends

Growth of iot and iiot

With the amplification of advanced technologies and the effective usage of internet networks in manufacturing, there has been a boom in the IoT industry and IoT applications. The infrastructure of the Internet of Things is undergoing major advances. As reported in the Mobile Economy 2020, released by the GSM Association, the number of devices connecting to the Internet—i.e., IoT connections are estimated to hit 25 billion in 2025, from 12 billion in 2019. In a few years, the greater involvement of IoT devices will gradually connect computers to software and link users to essential resources, streamline the corporate workflow, and benefit people. Furthermore, the accelerated penetration of the Internet and mobile devices has contributed to the rise of Industry 4.0, also known as Industrial IoT. As reported in the UN Industrial Development Organization's 'Industry 4.0 Opportunities Behind the Challenge – Background Paper', Industry 4.0 is a paradigm change from centralized to localized smart manufacturing and production. As a result, the rise of Industry 4.0 and IoT products has led to an improvement in the use of electronic parts, thus improving market growth.

Electronic components demand driven by emerging technologies

The electronic components market presents significant opportunities due to the growing demand for advanced technologies such as 5G, Internet of Things (IoT), artificial intelligence (AI), and electric vehicles (EVs). As these sectors expand, the need for high-performance components like semiconductors, sensors, and microchips rises, driving innovation and creating a fertile environment for companies to capitalize on the increased demand. This surge in technology adoption is leading to more complex and miniaturized designs, prompting manufacturers to develop components that offer better efficiency, durability, and energy management. Consequently, companies that invest in R&D and stay ahead of technological advancements can secure a competitive edge, meeting the demands of diverse industries and expanding their market share.

Market Segments

By Type

Active components lead the market at 47-50%, driven by semiconductors powering consumer electronics and automotive innovation, followed by passive components at 32-35% with rising demand in 5G and EVs, while electromechanical components hold 12-15%, buoyed by industrial and aerospace needs.



47-50%

Active components

By End-Use Industry

Consumer electronics lead with smart device proliferation, automotive due to EVs and safety tech, telecom with network growth, industrial electronics via automation, defence and aerospace for critical systems, and others for diverse uses.



XX%

Consumer electronics

Regional Overview

North America

North America holds 18-20%, with the U.S. (77-80% of region) driving growth via tech advancements and strong automotive/consumer sectors.



77-80%

United States Market Share

Europe

Europe secures 12-15%, with Germany (32-35% of region) excelling in automotive and industrial electronics amid innovation focus.



32-35%

Germany Market Share

APAC

APAC commands 52-55% of the market, led by China (58-60% of region), fueled by vast manufacturing, consumer electronics demand, and tech innovation.



58-60%

China Market Share

Regional Overview

Middle East and Africa

MEA is advancing via telecom infrastructure and energy projects, with Saudi Arabia playing a key role.



XX%

Saudi Arabia Market Share

LATAM

LATAM is led by Brazil, growing through consumer electronics and emerging industrial applications.



XX%

Brazil Market Share

Company Profiles

Companies	Websites	Headquarters	Establisheds	Key Executives	Revenues
Kyocera Electronics Devices	https://global.kyocera.com/	Kyoto, Japan	1959	Hideo Tanimoto (President)	~\$15 billion
Advanced Micro Devices	https://www.amd.com/en.html	Santa Clara, CA, USA	1969	Lisa Su (CEO)	~\$24 billion
Analog Devices, Inc.	https://www.analog.com/en/index.html	Wilmington, MA, USA	1965	Vincent Roche (CEO)	~\$10 billion
Broadcom Inc.	https://www.broadcom.com/	San Jose, CA, USA	1991	Hock Tan (CEO)	~\$42 billion
Hitachi Ltd.	https://www.hitachi.com/en/	Tokyo, Japan	1910	Keiji Kojima (President & CEO)	~\$87 billion

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