

Global Silicon-based Integrated Passive Devices Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Silicon-based Integrated Passive Devices market size was valued at USD 902.2 million in 2023 and is forecast to a readjusted size of USD 1550.1 million by 2030 with a CAGR of 8.0% during review period.

Silicon-based integrated passive devices use the foundry process on the silicon substrate to etch different patterns by photolithography technology to form different devices, thereby realizing various passive components such as resistors, capacitors, inductors, filters, High-density integration of couplers, etc.

This IPD technology can bring the following benefits to electronic systems:

Saving board space

Better electrical performance

Lower cost

IP protection

Better product chain supply and reliability

At present, advanced silicon-based integrated passive device technology is mainly controlled by Japanese, European and American companies. Global leading companies include ST, Qorvo, Broadcom, Murata, AVX, Skyworks, ON Semiconductor, Johanson

Technology, Onchip Devices, Xpeedic. Production companies in China and other regions are small in scale and relatively weak in technological research and development. Most companies usually do not have their own core technology and generally adopt low-cost marketing to gain market share.

The main sales areas of silicon-based integrated passive devices are Asia Pacific and North America, which together account for approximately 84% of the global market share. The Asia-Pacific market also plays an important role in driving the development of the global market, thanks to the rapid growth of Japan, China and India.

The Global Info Research report includes an overview of the development of the Silicon-based Integrated Passive Devices industry chain, the market status of Consumer Electronics (Digital & Mixed Signal IPD, RF IPD), Industrial (Digital & Mixed Signal IPD, RF IPD), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon-based Integrated Passive Devices.

Regionally, the report analyzes the Silicon-based Integrated Passive Devices markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Silicon-based Integrated Passive Devices market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Silicon-based Integrated Passive Devices market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Silicon-based Integrated Passive Devices industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (M Units), revenue generated, and market share of different by Type (e.g., Digital & Mixed Signal IPD, RF IPD).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and

market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Silicon-based Integrated Passive Devices market.

Regional Analysis: The report involves examining the Silicon-based Integrated Passive Devices market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Silicon-based Integrated Passive Devices market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon-based Integrated Passive Devices:

Company Analysis: Report covers individual Silicon-based Integrated Passive Devices manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Silicon-based Integrated Passive Devices. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Industrial).

Technology Analysis: Report covers specific technologies relevant to Silicon-based Integrated Passive Devices. It assesses the current state, advancements, and potential future developments in Silicon-based Integrated Passive Devices areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Silicon-based Integrated Passive Devices market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Silicon-based Integrated Passive Devices market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Digital & Mixed Signal IPD

RF IPD

ESD / EMI protection

Market segment by Application

Consumer Electronics

Industrial

Network and Server Equipment

Automotive

Medical and Life Sciences

Other

Major players covered

ST

Qorvo

Broadcom

Murata

AVX

Skyworks

ON Semiconductor

Johanson Technology

Onchip Devices

Xpeedic

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon-based Integrated Passive Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon-based Integrated Passive Devices, with price, sales, revenue and global market share of Silicon-based Integrated Passive Devices from 2019 to 2024.

Chapter 3, the Silicon-based Integrated Passive Devices competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed

emphatically by landscape contrast.

Chapter 4, the Silicon-based Integrated Passive Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Silicon-based Integrated Passive Devices market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon-based Integrated Passive Devices.

Chapter 14 and 15, to describe Silicon-based Integrated Passive Devices sales channel, distributors, customers, research findings and conclusion.

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