

# Global Power Semiconductor Switches 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 Power Semiconductor Switches market size was valued at USD 6821 million in 2023 and is forecast to a readjusted size of USD 9582.8 million by 2030 with a CAGR of 5.0% during review period.

Power Semiconductor Switches are the discrete power device. A discrete power device (or discrete component) is an electronic component with just one circuit element, other than an integrated circuit. It is an electronic component widely used in automotive & transportation, industrial, consumer, communication and among others. The power transistors and thyristors are called Power Semiconductor Switches, which include PowerMOSFETs, IGBTs, Bipolar Power Transistors, SCR, GTO etc.

Global Power Semiconductor Switches main players are Infineon Technologies AG, ON Semiconductor, STMicroelectronics N.V., Toshiba Corporation, etc. Global top four manufacturers hold a share over 35%. China is the largest market, with a share nearly 50%.

The Global Info Research report includes an overview of the development of the Power Semiconductor Switches industry chain, the market status of Automotive & Transportation (Power MOSFETs, IGBTs), Industrial & Power (Power MOSFETs, IGBTs), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Power Semiconductor Switches.

Regionally, the report analyzes the Power Semiconductor Switches 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 Power Semiconductor Switches market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Power Semiconductor Switches 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 Power Semiconductor Switches 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 (K Units), revenue generated, and market share of different by Type (e.g., Power MOSFETs, IGBTs).

**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 Power Semiconductor Switches market.

**Regional Analysis:** The report involves examining the Power Semiconductor Switches 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 Power Semiconductor Switches market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Power Semiconductor Switches:

**Company Analysis:** Report covers individual Power Semiconductor Switches 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 Power Semiconductor Switches. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive & Transportation, Industrial & Power).

**Technology Analysis:** Report covers specific technologies relevant to Power Semiconductor Switches. It assesses the current state, advancements, and potential future developments in Power Semiconductor Switches areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Power Semiconductor Switches 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

Power Semiconductor Switches 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

Power MOSFETs

IGBTs

Bipolar Power Transistors

Thyristors

### Market segment by Application

Automotive & Transportation

Industrial & Power

Consumer

Computing & Communications

Others

#### Major players covered

Infineon Technologies AG

ON Semiconductor

STMicroelectronics N.V.

Toshiba Corporation

Vishay Intertechnology Inc

Fuji Electric

Renesas Electronics

ROHM Semiconductor

Sanken

Nexperia

Mitsubishi Electric Corporation

Microchip Technology

Semikron Inc

IXYS

ABB Ltd.

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 Power Semiconductor Switches product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Semiconductor Switches, with price, sales, revenue and global market share of Power Semiconductor Switches from 2019 to 2024.

Chapter 3, the Power Semiconductor Switches competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Power Semiconductor Switches 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 Power Semiconductor Switches 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 Power Semiconductor Switches.

Chapter 14 and 15, to describe Power Semiconductor Switches sales channel, distributors, customers, research findings and conclusion.

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