

Global Thyristors 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 Thyristors Devices market size was valued at USD 731.6 million in 2023 and is forecast to a readjusted size of USD 1212.5 million by 2030 with a CAGR of 7.5% during review period.

Thyristors devices are semiconductor devices used for controlling and switching electric power. They belong to the family of semiconductor devices known as 'power semiconductors' which are capable of handling high voltages and currents.

Thyristor can be classified into SCR and TRIAC according to the direction of current control. SCRs are unidirectional devices and conduct load current in only one direction. SCRs are triggered by a positive trigger current into the gate. Low power applications include circuit breakers like GFCI and engine ignition circuits. High power applications include motor control, inrush current protection, battery chargers, SMPS and UPS. TRIACs are current-controlled, bidirectional power latches, designed to control AC-mains loads. TRIACs are mainly used in home appliances, electrical (water) heaters, lamp dimmers and motor control applications.

Global 5 largest manufacturers of Thyristors Devices are STMicroelectronics, JieJie Microelectronics, WeEn Semiconductors, Renesas Electronics and Littelfuse, which make up over 65%. Among them, STMicroelectronics is the leader with about 22% market share.

In terms of product type, SCR occupies the largest share of the total market, more than 70%. In terms of product application, Computing & Communications occupy the largest share of the total market, about 40%.

The Global Info Research report includes an overview of the development of the Thyristors Devices industry chain, the market status of Automotive & Transportation (SCR, TRIAC), Industrial Control (SCR, TRIAC), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Thyristors Devices.

Regionally, the report analyzes the Thyristors 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 Thyristors Devices market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Thyristors 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 Thyristors 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., SCR, TRIAC).

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 Thyristors Devices market.

Regional Analysis: The report involves examining the Thyristors 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 Thyristors 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 Thyristors Devices:

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

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Thyristors 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

Thyristors 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

SCR

TRIAC

Market segment by Application

Automotive & Transportation

Industrial Control

Consumer Electronics

Computing & Communications

Others

Major players covered

STMicroelectronics

WeEn Semiconductors

Littelfuse

Renesas Electronics

JieJie Microelectronics

Vishay

Shindengen Electric

Semikron Danfoss

Diodes Incorporated

Sanken Electric

SanRex

Central Semiconductor

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 Thyristors Devices product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Thyristors 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 Thyristors 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 Thyristors

Devices.

Chapter 14 and 15, to describe Thyristors Devices sales channel, distributors, customers, research findings and conclusion.

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