



Power Electronic Devices Industry Research Report 2026

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Description

Power Electronic Device The scientific name of power electronic device, also known as power semiconductor device, refers to an electronic device that can be directly used in the main circuit for processing electrical energy to realize the conversion or control of electrical energy. The most important parameter is the amount of electrical power that it can handle, that is, its ability to withstand voltage and current, which is generally much greater than that of electronic devices that process information. In order to reduce its own loss and improve efficiency, it generally works in the on-off state.

It is controlled by the information electronic circuit and requires a drive circuit.

The power loss of its own is usually far greater than that of information electronic devices, and a radiator is generally required to be installed when it is working.

Global Power Electronic Devices key players include Infineon, Anshion Beauty, Toshiba Corp., Mitsubishi, etc. Global top four manufacturers hold a share over 15%.

China is the largest market, with a share about 40%, followed by Europe, and United States, both have a share over 40 percent.

In terms of product, Uncontrolled Device is the largest segment, with a share about 45%. And in terms of application, the largest application is Consumer Electronics Applications, followed by Energy Application, Traffic Application, Industrial Application.

Report Scope

This report quantifies the global Power Electronic Devices market in revenue (US\$ million) and, where applicable, sales volume (K Units), using 2025 as the base year and providing annual historical and forecast data for 2021–2032.

It standardizes definitions of types and applications, harmonizes vendor attribution, and presents comparable time series by company, type, application, and region/country, including indicative price bands (US\$/K Units) and concentration ratios (CR5/CR10).

The outputs are intended to support strategy development, budgeting, and performance benchmarking for manufacturers, new entrants, channel partners, and investors; the report also reviews technology shifts and notable product introductions relevant to Power Electronic Devices.

Key Companies & Market Share Insights

This section profiles leading manufacturers, combining 2021–2025 results with a 2026–2032 outlook. It reports revenue, market share, price bands, product and application mix, regional and channel mix, and key developments (M&A, capacity additions, certifications). It also provides global revenue, average price, and—

where applicable—sales volume by manufacturer, and calculates CR5/CR10 and rank changes to support comparative benchmarking.

Power Electronic Devices Market by Company

Infineon

Mitsubishi

Toshiba Corp.

Ansion Beauty

Hitachi

Fuji

ABB

General Electric (ge)

Rohm Semiconductor

Sunking-Tech

Cree.Inc

Xian IR-Peri Co. LTD

Efficient Power Conversion

Changzhou Ruihua Power Electronic Devices Co.,Ltd

Power Electronic Devices Segment by Type

Half-controlled Devices

Fully-controlled Devices

Uncontrolled Device

Other

Power Electronic Devices Segment by Application

Consumer Electronics Applications

Energy Application

Industrial Application

Traffic Application

Power Electronic Devices Segment by Region

North America

United States

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Spain

Netherlands

Switzerland

Sweden

Poland

Asia-Pacific

China

Japan

South Korea

India
Australia
Taiwan
Southeast Asia
South America
Brazil
Argentina
Chile
Middle East & Africa
Egypt
South Africa
Israel
Türkiye
GCC Countries

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Power Electronic Devices market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Power Electronic Devices and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market
5. This report helps stakeholders to gain insights into which regions to target globally
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Power Electronic Devices.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1:

Research objectives, research methods, data sources, data cross-validation;

Chapter 2:

Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3:

Detailed analysis of Power Electronic Devices manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4:

Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5:

Production/output, value of Power Electronic Devices by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6:

Consumption of Power Electronic Devices in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7:

Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8:

Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9:

Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10:

Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11:

The main points and conclusions of the report.

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