

Global Power ICs Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Power ICs market size was valued at USD 22510 million in 2023 and is forecast to a readjusted size of USD 28910 million by 2030 with a CAGR of 3.6% during review period.

PICs (power integrated circuits) are defined as ICs combining high-voltage and/or high-current components monolithically with low-voltage/low-current control components. Broadly, three classes of technologies, based on the techniques for isolating the high- and low-voltage components, have been developed for PICs: junction-isolated, self-isolated and dielectrically isolated. Each of these technologies has found its way into applications that result in optimal performance per unit cost. Simultaneously with the development of technologies, several advancements have been made in high-voltage/power devices suitable for integration. These included the reduced surface field lateral double diffused MOS transistor (RESURF LDMOS), the isolated vertical DMOS (VDMOS), the lateral insulated gate bipolar transistor (LIGBT), the high-voltage RESURF bipolar transistors, the Schottky injection FET (SINFET), and the trench sidewall channel DMOS (TDMOS).

From the perspective of PIC applications, in recent years, with the emerging of smartphones, smart homes, wearable devices, VR (Virtual Reality) / AR (Augmented Reality) The booming consumer electronics market and the demand for intelligent and low-energy consumption of industrial automation robots, drones, electric vehicles and other industrial products. The rapid development of integrated circuit products in the direction of diversification has spawned a large number of new chip requirements, which has led to the steady development of the global PIC design industry.

From the perspective of overall market share, the main players in China's PIC market

are mainly from European and American, accounting for more than 80% of the market share. The entire power Standard Power ICs design industry is showing a shift from the United States, Europe and Japan to China, China's power Standard Power ICs market is on the rise. As the manufacturing centers of end-consumer products are concentrated in Asia-Pacific and China, due to the impact of cost, large-scale ICs design companies in Europe and the United States have gradually faded out of the trend of civilian consumer markets, turning to other Vehicle Electronics, industrial, military, and even astronauts and other performance requirements.

The Global Info Research report includes an overview of the development of the Power ICs industry chain, the market status of Smart Phone (Power Management IC (PMIC), Driver IC), Automotive (Power Management IC (PMIC), Driver IC), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Power ICs.

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

Key Features:

The report presents comprehensive understanding of the Power ICs 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 ICs 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 revenue generated, and market share of different by Type (e.g., Power Management IC (PMIC), Driver IC).

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 ICs market.

Regional Analysis: The report involves examining the Power ICs 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 ICs 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 ICs:

Company Analysis: Report covers individual Power ICs players, 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 ICs. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Smart Phone, Automotive).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Power ICs 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 ICs 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 value.

Market segment by Type

Power Management IC (PMIC)

Driver IC

Market segment by Application

Smart Phone

Automotive

High Performance Computing

Industrial

IoT

Others

Market segment by players, this report covers

Texas Instruments

Infineon

Qualcomm

ON Semi

NXP

Maxim Integrated

Dialog Semiconductor

STMicroelectronics

Toshiba

Analog Devices

Silergy

Power Integrations

ROHM

MediaTek Inc.

Microchip

Skyworks

Renesas

Cypress Semiconductor

On-Bright Electronics

Alpha and Omega Semiconductor

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Power ICs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Power ICs, with revenue, gross margin and global market share of Power ICs from 2019 to 2024.

Chapter 3, the Power ICs competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Power ICs market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Power ICs.

Chapter 13, to describe Power ICs research findings and conclusion.

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