

Global Gate Drivers Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G13D68C9E5CEN.html>

Date: January 2024

Pages: 151

Price: US\$ 3,480.00 (Single User License)

ID: G13D68C9E5CEN

Abstracts

According to our (Global Info Research) latest study, the global Gate Drivers market size was valued at USD 238.7 million in 2023 and is forecast to a readjusted size of USD 417.8 million by 2030 with a CAGR of 8.3% during review period.

Gate drivers are electronic circuits that apply correct power levels to metal-oxide field-effect transistors (MOSFETs) and insulated gate bipolar transistors (IGBTs). With power-MOSFETs, gate drivers can be implemented as transformers, discrete transistors, or dedicated integrated circuits (IC).

They can also be integrated within controller ICs. Partitioning the gate-drive function of controllers that use pulse width modulation (PWM) improves controller stability by eliminating the high peak currents and heat dissipation needed to drive power-MOSFETs at very high frequencies.

With IGBTs, gate drivers serve as isolation amplifiers and often provide short-circuit protection. Because of their insulated gates, IGBTs require a continuous gate circuit in order to sustain gate current.

Major manufacturers of door drivers include STMicroelectronics, Infineon, Fairchild Semiconductor, Rohm Semiconductor, and ON Semiconductor. The top five accounted for about 50% of the market.

North America is the main market, accounting for about 60%, followed by Europe at about 20%.

The Global Info Research report includes an overview of the development of the Gate

Drivers industry chain, the market status of Home appliance (On-chip Gate Drivers, Discrete Gate Drivers), Motion Control (On-chip Gate Drivers, Discrete Gate Drivers), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Gate Drivers.

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

Key Features:

The report presents comprehensive understanding of the Gate Drivers 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 Gate Drivers 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., On-chip Gate Drivers, Discrete Gate Drivers).

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 Gate Drivers market.

Regional Analysis: The report involves examining the Gate Drivers 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 Gate Drivers market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Gate Drivers:

Company Analysis: Report covers individual Gate Drivers 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 Gate Drivers. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Home appliance, Motion Control).

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

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

Gate Drivers 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

On-chip Gate Drivers

Discrete Gate Drivers

Market segment by Application

Home appliance

Motion Control

Display

Lighting

Automotive

Industrial

Others

Major players covered

STMicroelectronics

Infineon

Fairchild Semiconductor

Rohm Semiconductor

Microchip Technology

ON Semiconductor

NXP Semiconductors

Intersil

Allegro MicroSystems

Texas Instruments

Analog Devices

Avago

Analog Devices

Richtek

Microchip Technology

Diodes

Power Integrations

Semtech

IXYS

NJR

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 Gate Drivers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Gate Drivers 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 Gate Drivers 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 Gate Drivers.

Chapter 14 and 15, to describe Gate Drivers sales channel, distributors, customers, research findings and conclusion.

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