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Global Gate Driver Transistors Market Growth 2025-2031

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Abstracts

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The global Gate Driver Transistors market size is predicted to grow from US$ 1560 million in 2025 to US$ 2546 million in 2031; it is expected to grow at a CAGR of 8.5% from 2025 to 2031.

A gate driver is a power amplifier that accepts a low-power input from a controller IC and produces a high-current drive input for the gate of a high-power transistor such as an IGBT or power MOSFET. Gate drivers can be provided either on-chip or as a discrete module.

The global market for semiconductor was estimated at US$ 579 billion in the year 2022, is projected to US$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

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Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US$142.1 billion, up 17.0% year-on-year, sales in Europe were US$53.8 billion, up 12.6% year-on-year, and sales in Japan were US$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US$336.2 billion, down 2.0% year-on-year.

LP Information, Inc. (LPI) ' newest research report, the “Gate Driver Transistors Industry Forecast” looks at past sales and reviews total world Gate Driver Transistors sales in 2024, providing a comprehensive analysis by region and market sector of projected Gate Driver Transistors sales for 2025 through 2031. With Gate Driver Transistors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Gate Driver Transistors industry.

This Insight Report provides a comprehensive analysis of the global Gate Driver Transistors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Gate Driver Transistors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Gate Driver Transistors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gate Driver Transistors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Gate Driver Transistors.

This report presents a comprehensive overview, market shares, and growth opportunities of Gate Driver Transistors market by product type, application, key

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manufacturers and key regions and countries.

Segmentation by Type:

- On-chip Gate Drivers
- Discrete Gate Drivers

Segmentation by Application:

- Home Appliance
- Automotive
- Display & Lighting
- Power Supply
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan

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- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- STMicroelectronics

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Infineon

Fairchild Semiconductor

Rohm Semiconductor

Microchip Technology

ON Semiconductor

NXP Semiconductors

Intersil

Allegro MicroSystems

Texas Instruments

Analog Devices

Avago

Vishay

Richtek

Broadcom

Diodes

Power Integrations

Semtech

IXYS

NJR

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Toshiba

Renesas

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gate Driver Transistors market?

What factors are driving Gate Driver Transistors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Gate Driver Transistors market opportunities vary by end market size?

How does Gate Driver Transistors break out by Type, by Application?

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