

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Isolated Gate Drivers Market 2018, Forecast to 2023

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Abstracts

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.

SCOPE OF THE REPORT:

This report focuses on the Isolated Gate Drivers in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. In recent years, a much greater percentage of home appliances, electric vehicles, hybrid vehicles, including mild hybrids, and renewable energy products have implemented dedicated power semiconductor devices on-board. Isolated Gate Drivers will benefit from power semiconductors delivering a 8.5% CAGR from 2017-2022. Most of power MOSFETs and IGBTs are driven by gate drivers IC. However, while almost all IGBTs require a gate driver, MOSFETs are showing a considerably lower usage of Isolated Gate Drivers. Isolated Gate Drivers utilization varies on voltage and power levels and it strongly depends on the applications, in 2016, more than 69% of the gate drivers IC market correspond to the ones combined with MOSFETs. But this figure step by step decreases slowly and appear to be stabilizing. In parallel IGBT market share increases. As a consequence, the revenue gap between MOSFET and IGBT gate drivers will be quickly narrowing in a near future. The supply chain of the gate driver is evolving, pushed by higher integration needs, as well as an increasing need for more complete product solutions. In addition to gate driver IC manufacturers, other players emerged along the supply

chain to offer alternative solutions for various power management needs. Two of the more notable solutions are Intelligent Power Modules (IPMs) and Plug-and-Play (PnP) gate driver boards. An IPM integrates control, protection, gate driver, and power switching devices in a single package to address the need for compact, efficient, and application-specific power management needs. Over 70% of all IPMs are in white goods and motor control. Some notable players such as Mitsubishi, ON Semiconductor, Semikron, and Infineon compete fiercely in the IPM market. Based on QYR's analysis, high voltage IPMs are forecast to slowly replace discrete solutions in several key markets, such as automotive, industrial, and consumer.

The top five gate driver IC suppliers control more than 50% of the market, with most of them also competing in the power semiconductor segment, including Texas Instruments, Infineon, and Analog Devices. Compared to other semiconductor segments such as memory, CPU, and sensors, the power semiconductor sector is less consolidated and can still provide opportunities for companies to grow with the right business model and strategy.

Various business models can be successful in addressing diverse customer needs in the gate driver market. Companies change their business models periodically to address fast growing markets. For instance, Texas Instruments, traditionally an IC supplier, increased its focus on providing system level solutions by integrating multiple chips in the same package or board.

This is the end of Isolated Gate Drivers report.

New materials such as SiC and GaN will increase the level of integration. Both SiC and GaN devices have been in development for years. To recoup the cost and maximize the profit, companies are gearing towards offering system level solutions instead of components. Other companies traditionally not invested in these two materials can get product portfolios and expertise by acquiring other companies.

The worldwide market for Isolated Gate Drivers is expected to grow at a CAGR of roughly 4.3% over the next five years, will reach 130 million US\$ in 2023, from 100 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Texas Instruments

Analog Devices

Infineon

STMicroelectronics

Broadcom

Silicon Labs

On Semiconductor

ROHM Semiconductor

IXYS

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

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

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Isolated IGBT Gate Driver

Isolated MOSFET Gate Driver

Others

Market Segment by Applications, can be divided into

Industrial

Automotive

Enterprise

Telecommunications

Other

There are 15 Chapters to deeply display the global Isolated Gate Drivers market.

Chapter 1, to describe Isolated Gate Drivers Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Isolated Gate Drivers, with sales, revenue, and price of Isolated Gate Drivers, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Isolated Gate Drivers, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Isolated Gate Drivers market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Isolated Gate Drivers sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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