

Global Isolated Gate Driver ICs Market Size Study, by Type (Isolated IGBT Gate Driver, Isolated MOSFET Gate Driver, Others), by Application (Industrial, Automotive, Telecommunications and Consumer Electronics, Others), and Regional Forecasts 2022-2032

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Abstracts

Global Isolated Gate Driver ICs Market is valued approximately at USD 746.21 million in 2023 and is anticipated to grow with a healthy growth rate of more than 5.12% over the forecast period 2024-2032. Isolated Gate Driver ICs serve as crucial components in power electronics, acting as power amplifiers that accept low-power inputs from controller ICs and produce high-current drive inputs for high-power transistors such as IGBTs and MOSFETs. These drivers, essential for functional and safety considerations, are used in various applications where isolation from high bus voltages and currents is necessary. The burgeoning demand for efficient power management solutions across industries, coupled with the need for high-performance semiconductor devices, is propelling the growth of the Isolated Gate Driver ICs market.

The Global Isolated Gate Driver ICs Market is driven by the increasing adoption of renewable energy systems and electric vehicles, which require robust power electronics for efficient operation. The advancements in driving technology, such as half-bridge topologies, necessitate the use of isolated gate drivers to ensure safety and functionality. For instance, the rise in investments in renewable energy projects and the surge in electric vehicle production are significantly boosting the demand for isolated gate drivers. Moreover, the market is witnessing a trend towards the integration of gate drivers on-chip to enhance performance and reduce costs. However, complexity of designing isolated systems and the high costs associated with advanced gate driver

solutions is going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the Global Isolated Gate Driver ICs market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific was the dominating among regional market in terms of revenue owing to factors such as strong industrial base, increasing adoption of electric vehicles, and significant investments in renewable energy projects. Governments are implementing policies and incentives to promote the use of EVs to reduce carbon emissions and dependence on fossil fuels. This surge in EV adoption necessitates the development of a supporting infrastructure, including charging stations and smart grids, which in turn boosts the demand for smart electricity solutions and software. Furthermore, the market in North America is anticipated to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Texas Instruments

Analog Devices

Infineon Technologies

STMicroelectronics

Broadcom

Skyworks (Silicon Labs)

On Semiconductor

ROHM Semiconductor

Renesas Electronics

Microchip Technology

The detailed segments and sub-segment of the market are explained below:

By Type

Isolated IGBT Gate Driver

Isolated MOSFET Gate Driver

Others

By Application

Industrial

Automotive

Telecommunications and Consumer Electronics

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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