

Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market, Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/OC7849EB9376EN.html>

Date: January 2022

Pages: 74

Price: US\$ 3,250.00 (Single User License)

ID: OC7849EB9376EN

Abstracts

IGBT and MOSFET gate driver photocouplers are a semiconductor device that provides a way to rapidly switch the input signal of high power IGBTs and MOSFETs while providing for high electrical isolation. Isolation is important because it blocks potential high voltages, isolates the ground and prevents noise currents from entering the low voltage control circuitry. Such signals can interfere with circuit operation and damage sensitive circuits. They are used in applications like motor control (where rapid switching can be used as a speed controller), Inverters and switched-mode power supplies. This may also be very important in meeting safety compliance regulations.

IGBT stands for insulated-gate bipolar transistor. MOSFET stands for metal oxide semiconductor field effect transistor. These are high-speed solid state switches not inside the device itself. They require extremely little current to turn them on relative to the current being switched. Because of the high currents these devices can switch (even hundreds of Amps), the switching currents required to switch the device on and off can still be quite high. The IGBT or MOSFETs gate input capacitance is in part created by an effect caused by negative feedback of the amplifier referred to as the Miller Effect or reverse transfer capacitance . This effect increases the capacitance roughly in proportion to the gain of the switch. The driver circuit needs to be capable of driving this load, being able to rapidly switch the voltage levels on the gate of the power IGBT or MOSFET to turn the device on and off. Time in the transition between on and off levels leads to power being dissipated in the IGBT or MOSFET, lowers efficiency or possibly even damages the device.

The device has a low voltage input that can turn the internal photodiode on or off.

This usually requires a voltage transition across the LEDs forward voltage typically around 1-1.4 Volts and current of around 10mA. A beam of light from the LED crosses an electrically insulating barrier and is sensed by a photo detector. This signal is used to turn the IGBT or MOSFET Driver in the device on and off. The driver must be able to provide an extremely fast transition on either switching transition to maintain the efficiency of the external IGBT or MOSFET switch. This means the driver must be able to sink or source very large (even amps) of current during these edges to charge or discharge the input capacitance quickly.

The driver circuitry may have integrated fault detection circuitry to tell if the switch is being unduly stressed by the load, or some failure condition has occurred. These signals can be sent by some devices back across the photodiode isolated barrier to the low voltage side so that it can be detected by the isolated control circuitry.

This report contains market size and forecasts of Optoelectronics IGBT and MOSFET Gate Driver Photocoupler in global, including the following market information:

Global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Optoelectronics IGBT and MOSFET Gate Driver Photocoupler companies in 2021 (%)

The global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

600V Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Optoelectronics IGBT and MOSFET Gate Driver Photocoupler include Silicon Labs, Broadcom Inc, California Eastern Laboratories, EVERLIGHT Electronics, Isocom Components, Toshiba, IXYS, Lite-On and ON Semiconductor, etc. In 2021, the global top five players have a share approximately %

in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Optoelectronics IGBT and MOSFET Gate Driver Photocoupler manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market Segment Percentages, by Type, 2021 (%)

600V

1000V

1500V

2000V

Others

Global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market Segment Percentages, by Application, 2021 (%)

Motor Control

Inverters

Switched-Mode Power

Others

Global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Optoelectronics IGBT and MOSFET Gate Driver Photocoupler Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Optoelectronics IGBT and MOSFET Gate Driver Photocoupler revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Optoelectronics IGBT and MOSFET Gate Driver Photocoupler

revenues share in global market, 2021 (%)

Key companies Optoelectronics IGBT and MOSFET Gate Driver Photocoupler sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Optoelectronics IGBT and MOSFET Gate Driver Photocoupler sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Silicon Labs

Broadcom Inc

California Eastern Laboratories

EVERLIGHT Electronics

Isocom Components

Toshiba

IXYS

Lite-On

ON Semiconductor

Panasonic

Renesas Electronics

Sharp

Vishay

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