

Global Power Semiconductor market by Component (Discrete, Module, Power Integrated Circuits), Material (Silicon/ Germanium, Silicon Carbide, Gallium Nitride), End-User Industry (Automotive, Consumer Electronics, IT & Telecommunications, Military & Aerospace, Power, Industrial), Regional Forecasts 2021-2027

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Abstracts

Global Power Semiconductor Market is valued approximately at USD 37.90 billion in 2020 and is anticipated to grow with a healthy growth rate of more than 3.17% over the forecast period 2021-2027. Power Semiconductors is a key component of modern power electronic circuits equipment and instruments. Wireless communication, sophisticated control of electric motors, motion control & servo drives, advanced computer systems, antennas, propagation & satellite systems, broadband wireless approaches, and other applications use these components. Electrical appliances, machinery, and systems cannot function without them. Power semiconductor market growth is driven by the key factors such as Growing Demand for Energy-efficient Battery-powered Portable Devices and Increasing Demand for Consumer Electronics and Wireless Communications. According to the Federation of Indian Chambers of Commerce and Industry (FICCI), India's electronics demand is estimated to record a CAGR of 25% during 2012-2020. Furthermore, In December 2020, ROHM Semiconductor of Kyoto, Japan, and United Automotive Electronic Systems Co. Ltd (UAES), a Chinese tier-1 automotive manufacturer, held an opening ceremony to announce the establishment of a joint laboratory for silicon carbide (SiC) technology at UAES' headquarters in Shanghai, China. This new laboratory collaboration consist with major equipment required for device and application in automotive industry. However, Shortage of Silicon Wafers and Variable Driving Requirements, may impede market

growth over the forecast period of 2021-2027.

Geographically, Asia Pacific is dominating the global power semiconductor market owing to the supporting government regulations and policies. Furthermore, China, Japan, Taiwan, and South Korea dominate the region's semiconductor market as rise in electronics hub with millions of electronic devices made every year for consumption in the region and exported to other places. This high production of electronic devices and components significantly contributes to the market share.

Major market player included in this report are:

Mitsubishi Electric Corporation
ON Semiconductor Corporation
Vishay Intertechnology Inc.
Magnachip Semiconductor Corp
Renesas Electronic Corporation
Alpha & Omega Semiconductor
Semikron International
ROHM Co Ltd
Toshiba Corporation
Fuji Electric Co. Ltd

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component:

Discrete
Module

Power Integrated Circuits

By Material:

Silicon/Germanium

Silicon Carbide (Sic)

Gallium Nitride (Gann)

By End user Industry:

Automotive

Consumer Electronics

IT and Telecommunication

Military and Aerospace

Power

Industrial

Other End-user Industries

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

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019

Base year – 2020

Forecast period – 2021 to 2027.

Target Audience of the Global Power Semiconductor Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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