

GaN Power Device Market by Device (GaN Power Discrete Devices, GaN Power ICs, and GaN Power Modules) and Application (Consumer Electronics, IT & Telecommunication, Automotive, Aerospace & Defense, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

Power semiconductor devices are incorporated in electronic circuits to regulate the energy transfer of the system. These devices are mostly in the form of a switch, for example, switched mode power supply (SMPS) is a type of power semiconductor device. Power devices that are made of Gallium Nitride (GaN)—a semiconductor material—are called GaN power devices. GaN power device reduces the overall energy loss of the system. Unlike the conventional transistors that requires larger chip space to decrease on-resistance, GaN devices are compact in size and hence provide high speed switching and size contraction of the overall system.

The factors that drive the market growth include decline in prices, better performance as compared to SiC devices, rise in demand for GaN devices for wireless charging, increase in installation of GaN devices in electric vehicle, and growth in requirement of GaN devices in commercial RF applications. However, lack of availability of GaN material and preference of silicon carbide (SiC) in high-voltage semiconductor applications restrain the market growth. Moreover, government initiatives in HVDC and smart grid and requirement of GaN power devices in electric and hybrid vehicle provides new opportunities for the players operating in the market are anticipated to provide numerous opportunities for market growth during the forecast period.

Increase in demand for GaN in radio frequency equipment; rise in adoption in the

telecommunication industry; and surge in demand for AC fast charger, LiDAR, and wireless power due to its advantages over silicon power devices.

The global GaN power devices market is segmented based on device, application, and region. Based on device, the market is categorized into GaN power discrete devices, GaN power ICs, and GaN power module. By application, the market is classified into consumer electronics, IT & telecommunication, automotive, aerospace & defense, and others. Geographically, it is analyzed across North America (the U.S., Mexico, and Canada), Europe (the UK, Germany, France, and rest of Europe), Asia-Pacific (China, Japan, Taiwan, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

The key players in the GaN power device market that are analyzed in the report are Efficient Power Conversion Corporation (EPC), GaN Systems, On Semiconductors, Panasonic Corporation, VisIC, Texas Instruments Inc., Toshiba Corporation, Fujitsu Limited, Infineon Technologies AG, and Taiwan Semiconductor Manufacturing Company. The key players adopt various key strategies for market growth such as product launch, product development, collaboration, partnership, and various other.

KEY MARKET SEGMENTS

By Device

GaN Power Discrete Devices

GaN Power ICs

GaN Power Module

By Application

Consumer Electronics

IT & Telecommunication

Automotive

Aerospace & Defense

Others

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

Japan

Taiwan

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Efficient Power Conversion Corporation (EPC)

Fujitsu Limited

GaN Systems

On Semiconductors

Panasonic Corporation

VisIC

Texas Instruments Inc.

Toshiba Corporation,

Fujitsu Limited

Infineon Technologies AG

Taiwan Semiconductor Manufacturing Company

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