

# High Temperature Semiconductor Devices Market, Global Outlook and Forecast 2022-2028

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## Abstracts

A surge in temperature requirements for new applications in industrial, oil drilling and aviation markets have compelled designers to develop a complete portfolio of semiconductor devices for high-temperature applications to handle high operating temperatures. With an increase in temperature, the characteristics of semiconductor devices degrade due to variances in threshold voltages and carrier mobility, augmented junction current leakage and intrinsic carrier density. The characterization and qualification of semiconductors operating at high temperatures are crucial to ensure that quality, reliability and functionality all meet the requirements of the intended application. The qualification of any high-temperature semiconductor device needs to consider the operating life of the overall device, its reliability and its packaging.

This report contains market size and forecasts of High Temperature Semiconductor Devices in global, including the following market information:

Global High Temperature Semiconductor Devices Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global High Temperature Semiconductor Devices Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five High Temperature Semiconductor Devices companies in 2021 (%)

The global High Temperature Semiconductor Devices 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.

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

The global key manufacturers of High Temperature Semiconductor Devices include Cree, Fujitsu, Gan Systems, General Electric, Infineon Technologies, NXP Semiconductors, Qorvo, Renesas Electronics and Texas Instruments and etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the High Temperature Semiconductor Devices 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 High Temperature Semiconductor Devices Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global High Temperature Semiconductor Devices Market Segment Percentages, by Type, 2021 (%)

GaN

SiC

GaAs

Diamond Semiconductor Substrate

Others

Global High Temperature Semiconductor Devices Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global High Temperature Semiconductor Devices Market Segment Percentages, by

## Application, 2021 (%)

Electronics

Defense and Aerospace

Automotive

Optoelectronic

Others

Global High Temperature Semiconductor Devices Market, By Region and Country,  
2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global High Temperature Semiconductor Devices 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 High Temperature Semiconductor Devices revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies High Temperature Semiconductor Devices revenues share in global market, 2021 (%)

Key companies High Temperature Semiconductor Devices sales in global market, 2017-2022 (Estimated), (K Units)

Key companies High Temperature Semiconductor Devices sales share in global market, 2021 (%)

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

Cree

Fujitsu

Gan Systems

General Electric

Infineon Technologies

NXP Semiconductors

Qorvo

Renesas Electronics

Texas Instruments

Toshiba



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