

Global High Temperature Semiconductor Devices Market Growth 2025-2031

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Abstracts

The global High Temperature Semiconductor Devices market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical

regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

LP Information, Inc. (LPI) ' newest research report, the “High Temperature Semiconductor Devices Industry Forecast” looks at past sales and reviews total world High Temperature Semiconductor Devices sales in 2024, providing a comprehensive analysis by region and market sector of projected High Temperature Semiconductor Devices sales for 2025 through 2031. With High Temperature Semiconductor Devices sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High Temperature Semiconductor Devices industry.

This Insight Report provides a comprehensive analysis of the global High Temperature Semiconductor Devices landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High Temperature Semiconductor Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High Temperature Semiconductor Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Temperature Semiconductor Devices and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High Temperature Semiconductor Devices.

This report presents a comprehensive overview, market shares, and growth opportunities of High Temperature Semiconductor Devices market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

GaN

SiC

GaAs

Diamond Semiconductor Substrate

Others

Segmentation by Application:

Electronics

Defense and Aerospace

Automotive

Optoelectronic

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Cree

Fujitsu

Gan Systems

General Electric

Infineon Technologies

NXP Semiconductors

Qorvo

Renesas Electronics

Texas Instruments

Toshiba

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Temperature Semiconductor Devices market?

What factors are driving High Temperature Semiconductor Devices market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High Temperature Semiconductor Devices market opportunities vary by end market size?

How does High Temperature Semiconductor Devices break out by Type, by Application?

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