

Global Third-Generation Semiconductor Devices & Modules Market Growth 2026-2032

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Abstracts

The global Third-Generation Semiconductor Devices & Modules market size is predicted to grow from US\$ 7237 million in 2025 to US\$ 19180 million in 2032; it is expected to grow at a CAGR of 15.2% from 2026 to 2032.

This report studies the Third-Generation Semiconductor devices and modules, include SiC power devices and GaN devices. The SiC power devices include SiC MOSFET Module, SiC MOSFET Discrete and SiC diode. The GaN devices include GaN RF devices and GaN power devices. GaN RF Devices include Power Amplifier PA, Low Noise Amplifier LNA, RF Switch, etc.

The key players of SiC MOSFET modules are STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech) and Semikron Danfoss, etc. The top three players hold a share over 70 percent in 2022. The key players of SiC MOSFET Discrete are STMicroelectronics, Infineon, Wolfspeed, Rohm, and CETC 55, etc. The top five players hold a share over 80 percent in 2022. The key players of SiC SBD are STMicroelectronics, Infineon, Wolfspeed, Rohm, onsemi, Microchip (Microsemi), and San'an Optoelectronics, etc. The top five players hold a share over 70 percent in 2022.

For GaN devices, currently GaN RF devices are currently in a dominant position, accounting for about 85% of the market share, while GaN power devices currently account for the remaining 15%. GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. It is expected that GaN power devices market share will further increase in the next few years. At present, GaN RF devices are mainly dominated by several companies such as Sumitomo Electric Device Innovations (SEDI), Wolfspeed, Qorvo and NXP; while GaN

power devices are dominated by Power Integrations, Inc., Navitas Semiconductor, GaN Systems, Efficient Power Conversion Corporation (EPC), Innoscience, Transphorm Inc. and Infineon, among which Innoscience is the world's largest GaN power device manufacturer.

LP Information, Inc. (LPI) ' newest research report, the “Third-Generation Semiconductor Devices & Modules Industry Forecast” looks at past sales and reviews total world Third-Generation Semiconductor Devices & Modules sales in 2025, providing a comprehensive analysis by region and market sector of projected Third-Generation Semiconductor Devices & Modules sales for 2026 through 2032. With Third-Generation Semiconductor Devices & Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Third-Generation Semiconductor Devices & Modules industry.

This Insight Report provides a comprehensive analysis of the global Third-Generation Semiconductor Devices & Modules 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 Third-Generation Semiconductor Devices & Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Third-Generation Semiconductor Devices & Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Third-Generation Semiconductor Devices & Modules 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 Third-Generation Semiconductor Devices & Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of Third-Generation Semiconductor Devices & Modules market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SiC MOSFET Modules

SiC MOSFET Discrete

SiC Diode

GaN RF Device

GaN Power Device

Segmentation by Application:

Automotive & EV/HEV

EV Charging

UPS, Data Center & Server

PV, Energy Storage, Wind Power

Telecom Infrastructure

Defense & Aerospace

Rail Transport

Consumer

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.

STMicroelectronics

Infineon (GaN Systems)

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

Sumitomo Electric Device Innovations (SEDI)

NXP Semiconductors

Efficient Power Conversion Corporation (EPC)

GE Aerospace

Bosch

Littelfuse (IXYS)

IQE

Soitec (EpiGaN)

Transphorm Inc.

NTT Advanced Technology (NTT-AT)

DOWA Electronics Materials

San'an Optoelectronics

CETC 55

WeEn Semiconductors

BASiC Semiconductor

Innoscence

Episil-Precision Inc

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

MACOM

Power Integrations, Inc.

RFHIC Corporation

NexGen Power Systems

Altum RF

Renesas Electronics

Fujitsu

Key Questions Addressed in this Report

What is the 10-year outlook for the global Third-Generation Semiconductor Devices & Modules market?

What factors are driving Third-Generation Semiconductor Devices & Modules market growth, globally and by region?

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

How do Third-Generation Semiconductor Devices & Modules market opportunities vary by end market size?

How does Third-Generation Semiconductor Devices & Modules break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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