

Global Third-Generation Semiconductor Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Third-Generation Semiconductor market size was valued at US\$ 5280 million in 2025 and is forecast to a readjusted size of US\$ 13290 million by 2032 with a CAGR of 14.3% during review period.

This report studies the Third-Generation Semiconductor, covering the SiC and GaN supply chain products. SiC semiconductors include the segment like SiC wafer, SiC power devices (modules and discrettes), and the GaN semiconductors include Power GaN and RF GaN, 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.

This report is a detailed and comprehensive analysis for global Third-Generation Semiconductor market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share

estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Third-Generation Semiconductor market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Third-Generation Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Third-Generation Semiconductor market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Third-Generation Semiconductor market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Third-Generation Semiconductor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Third-Generation Semiconductor market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics, Infineon (GaN Systems), Wolfspeed, Rohm, onsemi, BYD Semiconductor, Microchip (Microsemi), Mitsubishi Electric (Vincotech), Semikron Danfoss, Fuji Electric, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Third-Generation Semiconductor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SiC Semiconductor

GaN Semiconductor

Market segment by Application

Automotive & EV/HEV

EV Charging

UPS, Data Center & Server

PV, Energy Storage, Wind Power

Telecom Infrastructure

Defense & Aerospace

Rail Transport

Consumer

Others

Market segment by players, this report covers

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

Innoscience

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Third-Generation Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Third-Generation Semiconductor, with revenue, gross margin, and global market share of Third-Generation Semiconductor from 2021 to 2026.

Chapter 3, the Third-Generation Semiconductor competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Third-Generation Semiconductor market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Third-Generation Semiconductor.

Chapter 13, to describe Third-Generation Semiconductor research findings and conclusion.

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