

Global Third-Generation Semiconductor Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Third-Generation Semiconductor market size will reach 5,738.70 Million USD in 2025 and is projected to reach 15,330.22 Million USD by 2032, with a CAGR of 15.07% (2025-2032). Notably, the China Third-Generation Semiconductor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Third-generation semiconductors refer to materials that have significantly better electronic properties compared to first-generation (silicon) and second-generation (gallium arsenide) semiconductors. These materials, such as silicon carbide (SiC) and gallium nitride (GaN), are characterized by their wide bandgap, high electron mobility, and high thermal conductivity. These properties make third-generation semiconductors highly suitable for high-power, high-frequency, and high-temperature applications, including power electronics, radio frequency (RF) amplifiers, and advanced optoelectronic devices. Their use is critical in developing more efficient and compact power converters, electric vehicles, renewable energy systems, and next-generation communication technologies, offering improved performance, reduced energy loss, and enhanced durability.

The major global suppliers of Third-Generation Semiconductor include 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, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Third-Generation Semiconductor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global Third-Generation Semiconductor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Third-Generation Semiconductor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Third-Generation Semiconductor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public

information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Suppliers of Third-Generation Semiconductor Include:

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

Third-Generation Semiconductor Product Segment Include:

SiC Semiconductor

GaN Semiconductor

Third-Generation Semiconductor Product Application Include:

Automotive & EV/HEV

EV Charging

UPS, Data Center & Server

PV, Energy Storage, Wind Power

Telecom Infrastructure

Defense & Aerospace

Rail Transport

Consumer

Others

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