

Global Silicon Carbide Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Carbide Chip market size was valued at US\$ 6303 million in 2025 and is forecast to a readjusted size of US\$ 20166 million by 2032 with a CAGR of 18.1% during review period.

Silicon Carbide Chip refers to a semiconductor chip fabricated on silicon carbide, a wide-bandgap compound semiconductor material, and it usually includes SiC power device dies, discrete chips, and core dies used in power modules. It is designed to address the limitations of conventional silicon-based chips in high-voltage, high-frequency, high-temperature, and high-power-density applications, where silicon devices often suffer from higher switching losses, larger cooling requirements, and lower overall system efficiency. Owing to the intrinsic material advantages of SiC, such as higher breakdown electric field, better thermal capability, and suitability for high-temperature operation, SiC chips enable lower losses, higher switching frequency, improved power density, smaller system size, and better reliability in applications including electric vehicle traction inverters, onboard chargers, photovoltaic inverters, energy storage converters, industrial power supplies, railway systems, and fast charging equipment. The development of SiC chips can be traced to the broader evolution of wide-bandgap semiconductor research and high-power electronics, and commercialization accelerated as substrate growth, epitaxy, implantation, etching, and packaging technologies became more mature. The upstream supply chain typically covers high-purity silicon and carbon sources, SiC substrates, epitaxial wafers, photoresists, specialty gases, sputtering targets, ceramic substrates, bonding materials, packaging materials, and semiconductor production equipment, together with the supporting component and process ecosystem required for wafer fabrication, testing, and packaging. In 2025, the global production capacity of silicon carbide chips is estimated at approximately 600 million units, while

global sales volume is expected to reach 467 million units. The average selling price is about USD 13.1 per unit, and the gross profit margin of manufacturers is estimated to be in the range of 30% to 40%.

The silicon carbide chip market has moved beyond the early technology adoption phase and is now entering a stage of broader structural expansion, with demand still centered on electric vehicles, traction inverters, onboard chargers, photovoltaic inverters, energy storage converters, and high-efficiency industrial power systems. Competition is no longer defined only by device-level performance, but increasingly by the combined strength of substrate access, epitaxy, wafer processing, packaging, qualification capability, and supply assurance. Leading companies are deepening vertical integration and long-term supply strategies because customers are placing greater emphasis on reliability, consistency, qualification readiness, and system-level cost optimization. At the same time, the application scope of SiC chips is widening beyond core renewable-energy and vehicle-electrification uses, showing that the market is evolving from a niche high-performance segment into a broader platform technology for advanced power electronics.

Looking ahead, the market is likely to develop along three major paths. First, SiC chips will continue advancing toward higher efficiency, higher switching performance, and greater power density, supporting better energy conversion, faster charging, and more compact electrical architectures. Second, supply-chain coordination will become even more important, and integrated control over substrates, epitaxy, wafer fabrication, and module packaging will remain a major competitive advantage. Third, end-use diversification will continue, with demand extending beyond automotive and renewable energy into areas such as data-center power, AI-related power architectures, and other advanced industrial power applications. This means future growth is not expected to depend on a single downstream sector, but rather on the broader global shift toward electrification, decarbonization, and efficient power management across industries.

The main drivers behind this market are the rising need for better efficiency, smaller system size, improved thermal performance, and stronger reliability in end equipment, together with long-term demand created by vehicle electrification, renewable-energy integration, energy storage deployment, and upgrades in high-performance power systems. However, the market also faces clear constraints. SiC substrate and epitaxial production remain technically demanding, yield control is difficult, manufacturing stability requirements are strict, and customer qualification cycles are often long. In addition, macroeconomic pressure, capital intensity, and geopolitical uncertainty can affect expansion plans and supply-chain decisions. As more players enter the market, pricing

pressure and competing technology paths are also likely to intensify. As a result, the companies most likely to strengthen their position will be those that can coordinate materials, process technology, manufacturing, and customer engagement at the same time, rather than those relying on a single product advantage.

This report is a detailed and comprehensive analysis for global Silicon Carbide Chip market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Silicon Carbide Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Carbide Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Silicon Carbide Chip

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 Silicon Carbide Chip market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics, Infineon, 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

Silicon Carbide Chip 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SiC MOSFET Modules

SiC MOSFET Discretets

SiC Diode/SBD

Market segment by Wafer Size

4-inch SiC Power Chip

6-inch SiC Power Chip

8-inch SiC Power Chip

Market segment by Voltage Range

Below 650V SiC Power Chip

650V-1200V SiC Power Chip

Above 1200V SiC Power Chip

Market segment by Application

Automotive & EV/HEV

EV Charging

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Others

Major players covered

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon Carbide Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Carbide Chip, with price, sales quantity, revenue, and global market share of Silicon Carbide Chip from 2021 to 2026.

Chapter 3, the Silicon Carbide Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Carbide Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Silicon Carbide Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Carbide Chip.

Chapter 14 and 15, to describe Silicon Carbide Chip sales channel, distributors, customers, research findings and conclusion.

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