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Global Silicon Carbide Devices for Automotive Market Growth 2026-2032

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Abstracts

The global Silicon Carbide Devices for Automotive market size is predicted to grow from US$ 3359 million in 2025 to US$ 19900 million in 2032; it is expected to grow at a CAGR of 29.5% from 2026 to 2032.

This report studies discrete silicon carbide (SiC) power devices for automotive, include Silicon Carbide MOSFET Discretes, Silicon Carbide Diodes.

Currently automotive is the largest application of discrete SiC power devices. driven by demand from China, UAS, EU, and Japan. China is one of the world?s largest automotive markets, and its growth potential remains high. In particular, high rates of growth for electric-powered vehicles make China one of the largest markets for electromobility.

Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%. Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively.

LP Information, Inc. (LPI) ' newest research report, the ?Silicon Carbide Devices for Automotive Industry Forecast? looks at past sales and reviews total world Silicon Carbide Devices for Automotive sales in 2025, providing a comprehensive analysis by region and market sector of projected Silicon Carbide Devices for Automotive sales for 2026 through 2032. With Silicon Carbide Devices for Automotive sales broken down by

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region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Silicon Carbide Devices for Automotive industry.

This Insight Report provides a comprehensive analysis of the global Silicon Carbide Devices for Automotive 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 Silicon Carbide Devices for Automotive portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Silicon Carbide Devices for Automotive market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silicon Carbide Devices for Automotive 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 Silicon Carbide Devices for Automotive.

This report presents a comprehensive overview, market shares, and growth opportunities of Silicon Carbide Devices for Automotive market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Automotive Grade SiC MOSFET Module

Automotive Grade SiC MOSFET Discrete

Automotive Grade SiC SBD

Segmentation by Application:

Main Inverter

EV On-Board Chargers

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DC/DC Converter

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

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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

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

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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

StarPower

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Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cissoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

United Nova Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Carbide Devices for Automotive market?

What factors are driving Silicon Carbide Devices for Automotive market growth, globally and by region?

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

How do Silicon Carbide Devices for Automotive market opportunities vary by end market size?

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How does Silicon Carbide Devices for Automotive break out by Type, by Application?

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