

Global EV Semiconductor Market Growth 2026-2032

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Abstracts

The global EV Semiconductor market size is predicted to grow from US\$ 15040 million in 2025 to US\$ 28510 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 2032.

EV semiconductors are specialized semiconductor components designed for electric vehicles (EVs), enabling efficient power conversion, motor control, battery management, and energy recovery. These include power devices such as IGBTs, MOSFETs, SiC and GaN transistors, as well as sensors, microcontrollers, and ICs used in battery management systems (BMS), inverters, on-board chargers, and electric drivetrains. EV semiconductors are critical for improving energy efficiency, reducing weight, and ensuring reliability and safety in electric vehicles, making them a key technology in the electrification and decarbonization of transportation. In 2024, global EV semiconductor production reached approximately 2515 million units with an average global market price of around US\$ 6 per unit. The production capacity for EV semiconductors in 2024 was approximately 2600 million units. The typical gross profit margin for EV semiconductors is between 20% and 60%. The electric vehicle (EV) semiconductor market encompasses a wide range of semiconductor devices used in drive systems, battery management, power conversion, and in-vehicle electronic control, including power MOSFETs, IGBTs, SiC/GaN power devices, and microcontrollers. Driven by the global growth in EV production, expanding charging infrastructure, and increasing demands for efficiency and driving range, the market is expanding rapidly. Upstream includes semiconductor materials, wafers, and chip fabrication equipment suppliers, while downstream serves automakers, battery system manufacturers, and power electronics module producers. Market trends indicate that high-efficiency power devices, wide-bandgap semiconductor technologies, and intelligent control solutions will be key drivers of future growth.

United States market for EV Semiconductor is estimated to increase from US\$ million in

2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for EV Semiconductor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for EV Semiconductor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key EV Semiconductor players cover Infineon Technologies, STMicroelectronics, NXP Semiconductors, Texas Instruments, Renesas, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for EV Semiconductor 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 EV Semiconductor.

This report presents a comprehensive overview, market shares, and growth opportunities of EV Semiconductor market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Silicon-based Semiconductors

Wide Bandgap Semiconductors

Segmentation by Function:

Power Semiconductors

Analog & Sensor ICs

MCU & Microcontroller ICs

Others

Segmentation by Application:

Pure Electric Vehicles

Hybrid Vehicles

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.

Infineon Technologies

STMicroelectronics

NXP Semiconductors

Texas Instruments

Renesas

Qualcomm

Nvidia

Onsemi

Analog Devices

Robert Bosch Gmbh

Micron Technology

Microchip Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global EV Semiconductor market?

What factors are driving EV Semiconductor market growth, globally and by region?

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

How do EV Semiconductor market opportunities vary by end market size?

How does EV Semiconductor break out by Type, by Application?

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