

# Global Electric Vehicle Semiconductor Market 2022

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## Abstracts

Semiconductors are the heartbeat of electric vehicles. They determine the performance of the whole electric system. An EV requires more than twice as many semiconductors as its internal-combustion-engine counterpart, mainly because the EV demands much more use of power electronics. According to StrategyHelix, the global electric vehicle semiconductor market is expected to increase by US\$ 19,530 million during 2022-2028, expanding at a CAGR of 26.7% during the forecast period.

The report provides up-to-date market size data for period 2018-2021 and forecast to 2028 covering key market aspects like sales value for electric vehicle semiconductor. The global electric vehicle semiconductor market is segmented on the basis of product, application, vehicle type, and region. Based on product, the global electric vehicle semiconductor market is categorized into analog, discrete, logic, memory, others. Globally, the discrete segment made up the largest share of the electric vehicle semiconductor market. On the basis of application, the global electric vehicle semiconductor market has been segmented into advanced driver-assistance systems (ADAS), body and convenience, chassis and safety, infotainment and telematics, powertrain. By vehicle type, the global electric vehicle semiconductor market has been segmented into battery-powered electric vehicle (BEV), plug-in hybrid electric vehicle (PHEV). According to the research, the BEV segment had the largest share in the global electric vehicle semiconductor market. Geographically, the global electric vehicle semiconductor market is segmented into Asia Pacific, Europe, North America, Rest of the World (RoW).

The global electric vehicle semiconductor market is highly competitive. The prominent players operating in the global electric vehicle semiconductor market include Analog Devices Inc., BYD Semiconductor Co. Ltd., Fuji Electric Co. Ltd., GaN Systems Inc., Infineon Technologies AG, Intel Corporation, Microchip Technology Inc., Micron Technology Inc., Mitsubishi Electric Corporation, Murata Manufacturing Co. Ltd.,

Nuvoton Technology Corporation, NXP Semiconductors N.V., Qorvo Inc.,  
Renesas Electronics Corporation, Robert Bosch GmbH, ROHM Co. Ltd.,  
Semiconductor Components Industries LLC., SK hynix Inc., STMicroelectronics N.V.,  
Texas Instruments Incorporated, Vishay Intertechnology Inc., Wolfspeed Inc.

#### Report Scope

Product: analog, discrete, logic, memory, others

Application: advanced driver-assistance systems (ADAS), body and convenience,  
chassis and safety, infotainment and telematics, powertrain

Vehicle type: battery-powered electric vehicle (BEV), plug-in hybrid electric vehicle  
(PHEV)

Region: Asia Pacific, Europe, North America, Rest of the World (RoW)

Years considered: this report covers the period 2018 to 2028

#### Key Benefits for Stakeholders

Get a comprehensive picture of the global electric vehicle semiconductor market

Pinpoint growth sectors and trends for investment

## Contents

### **PART 1. INTRODUCTION**

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Study period  
Geographical scope  
Research methodology

### **PART 2. ELECTRIC VEHICLE SEMICONDUCTOR MARKET OVERVIEW**

### **PART 3. MARKET BREAKDOWN BY PRODUCT**

Analog  
Discrete  
Logic  
Memory  
Others

### **PART 4. MARKET BREAKDOWN BY APPLICATION**

Advanced driver-assistance systems (ADAS)  
Body and convenience  
Chassis and safety  
Infotainment and telematics  
Powertrain

### **PART 5. MARKET BREAKDOWN BY VEHICLE TYPE**

Battery-powered electric vehicle (BEV)  
Plug-in hybrid electric vehicle (PHEV)

### **PART 6. MARKET BREAKDOWN BY REGION**

Asia Pacific  
Europe  
North America  
Rest of the World (RoW)

## **PART 7. KEY COMPANIES**

Analog Devices, Inc.  
BYD Semiconductor Co., Ltd.  
Fuji Electric Co., Ltd.  
GaN Systems Inc.  
Infineon Technologies AG  
Intel Corporation  
Microchip Technology Inc.  
Micron Technology, Inc.  
Mitsubishi Electric Corporation  
Murata Manufacturing Co., Ltd.  
Nuvoton Technology Corporation  
NXP Semiconductors N.V.  
Qorvo, Inc.  
Renesas Electronics Corporation  
Robert Bosch GmbH  
ROHM Co., Ltd.  
Semiconductor Components Industries, LLC.  
SK hynix Inc.  
STMicroelectronics N.V.  
Texas Instruments Incorporated  
Vishay Intertechnology, Inc.  
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