

Global Automotive Electronic Components Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Electronic Components market size is expected to reach \$ 134740 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Automotive electronic components refer to basic electronic parts and semiconductor devices used in automotive electrical/electronic systems. They are primarily installed in ECUs, electronic control modules, sensor modules, actuator control boards, power conversion modules, and in-vehicle communication and infotainment systems to perform functions such as power management, signal acquisition, calculation and control, communication transmission, power drive, filtering and protection, clock reference, and reliable connection.

Understanding automotive-grade electronic components typically involves considering standards such as AEC-Q, IATF 16949, PPAP, ISO 26262, and customer-specific requirements. AEC-Q100 focuses on automotive integrated circuits, AEC-Q101 on automotive discrete semiconductors, and AEC-Q200 on automotive passive components; ISO 26262 addresses the functional safety of E/E systems related to road vehicle safety.

This article's statistical scope for automotive electronic components includes both passive and active components. Automotive-grade passive components include resistors, capacitors, and inductors; automotive-grade active components include: semiconductor discrete devices, integrated circuits (ICs) (including battery management ICs, power management ICs, MCUs, MPUs, DSPs, memory, SOCs, ASICs, etc.), and sensors (including MEMS sensors, image sensors, radar sensors, NOx sensors, etc.).

From an industry trend perspective, the automotive electronic components market is shifting from a traditional “supporting component supply market” toward a core market driven by vehicle electrification, intelligentization, software-defined vehicle architectures, and high-reliability automotive-grade semiconductors and components.

By application scenario, powertrain and electrification systems represent the highest-value incremental segment. Traction inverters, on-board chargers (OBC), DC-DC converters, battery management systems (BMS), high-voltage power distribution units and thermal management systems require a large number of SiC MOSFETs, IGBTs, MOSFETs, gate driver ICs, isolation ICs, BMS AFEs, film capacitors, current-sense resistors, power inductors and EMI components. The core requirements in this segment include high voltage withstand capability, high temperature resistance, low power loss, high reliability and functional safety. The transition toward 800V high-voltage platforms further raises the performance requirements for SiC devices, isolated gate drivers, high-voltage capacitors and low-loss magnetic components.

ADAS and autonomous driving place greater emphasis on computing power, bandwidth, low latency and sensing accuracy. Key components include radar chips, CMOS image sensors (CIS), SoCs, MCUs, PMICs, SerDes devices, memory, high-frequency MLCCs, crystal oscillators and low-noise power supply components. Smart cockpit systems mainly drive demand for cockpit SoCs, DRAM/NAND, display driver ICs, audio ICs, PMICs, timing devices and high-speed interface chips. Body electronics and comfort systems, although characterized by relatively low value per node, have a large number of distributed electronic nodes across the vehicle. They are therefore important consumption scenarios for MCUs, LIN/CAN transceivers, low-power MOSFETs, motor driver ICs, MLCCs, resistors, inductors and thermistors. Chassis and safety control systems require stronger real-time control capability, redundancy, ASIL compliance, vibration resistance and wide-temperature reliability.

From a product-segment competition perspective, integrated circuits represent the largest segment within automotive electronic components. Competitive focus is concentrated in MCUs, SoCs/ASICs, power management ICs, BMS ICs, in-vehicle communication ICs, memory and security chips. TI generated approximately 95% of its 2025 revenue from analog and embedded processing products and identifies industrial, automotive and data center as long-term growth opportunities, indicating that the underlying competitive logic of automotive ICs remains centered on analog power management, embedded control and long-term supply capability. NXP has deep product coverage in automotive radar, BMS, in-vehicle networking, audio and control applications. Infineon maintains strong positions in power semiconductors, automotive

MCUs, smart power switches, SiC devices, and electrified drivetrain and power architecture applications.

In discrete power devices, competition is concentrated among Infineon, onsemi, STMicroelectronics, ROHM, Toshiba, Vishay and Nexperia. New energy vehicles are driving demand for SiC devices, IGBTs, MOSFETs, power diodes, and TVS/ESD protection devices, although certain power device categories faced pricing pressure during 2024–2025. In sensors, radar, CIS, MEMS pressure and inertial sensors, magnetic sensors and current sensors are the main growth categories. Bosch, Sony, OmniVision, NXP, Infineon, STMicroelectronics, TDK, Allegro and Melexis hold advantages in different sensor subsegments. In passive components, Murata, TDK, Taiyo Yuden, Yageo, Vishay and KEMET/KYOCERA AVX focus their automotive competition on automotive-grade MLCCs, film capacitors, inductors, EMI filters, current-sense resistors and protection components.

Overall, the future growth of the automotive electronic components market will not be driven merely by vehicle volume expansion. It will be driven by the combined effects of higher semiconductor and component value per vehicle, system architecture upgrades, and increasingly stringent automotive-grade reliability requirements. In the short term, the industry remains affected by vehicle demand, slower EV growth in some markets, inventory cycles and pricing pressure. Over the medium to long term, 800V high-voltage platforms, L2+/L3 ADAS, cockpit domain controllers, zonal controllers, automotive Ethernet, more sophisticated BMS management and electrified thermal management systems will continue to raise the value contribution of ICs, sensors, power discrete devices and high-reliability passive components.

Market competition is also expected to become more concentrated among leading suppliers. On the one hand, automotive qualification, long-term supply capability, quality management systems and extended customer design-in cycles create high entry barriers. On the other hand, OEMs and Tier 1 suppliers are becoming more deeply involved in chip selection, platform definition and supply chain lock-in. Suppliers with broad product portfolios, global manufacturing capacity and mature automotive-grade software ecosystems are therefore more likely to secure long-term market share.

This report studies the global Automotive Electronic Components demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Electronic Components, and provides market size (US\$ million) and Year-over-Year

(YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Electronic Components that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Electronic Components total market, 2021-2032, (USD Million)

Global Automotive Electronic Components total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Automotive Electronic Components total market, key domestic companies, and share, (USD Million)

Global Automotive Electronic Components revenue by player, revenue and market share 2021-2026, (USD Million)

Global Automotive Electronic Components total market by Functional, CAGR, 2021-2032, (USD Million)

Global Automotive Electronic Components total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Automotive Electronic Components market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, onsemi, STMicroelectronics, Mitsubishi Electric (Vincotech), Nexperia, Vishay Intertechnology, Toshiba, Fuji Electric, Rohm, Renesas Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Automotive Electronic Components market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Functional, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Electronic Components Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Electronic Components Market, Segmentation by Functional:

Active Components

Passive Components

Global Automotive Electronic Components Market, Segmentation by Type:

Semiconductor Discrete Devices

Integrated Circuits (ICs)

Sensors

Resistors

Capacitors

Inductors

Global Automotive Electronic Components Market, Segmentation by Vehicle:

ICEV

NEV

Global Automotive Electronic Components Market, Segmentation by Application:

Powertrain and Electrification Systems

Chassis and Safety Control

ADAS and Autonomous Driving

Smart Cockpit and Infotainment

Body Electronics and Comfort Systems

Lighting Systems

In-vehicle Communication and Gateway

Power Management and Protection Systems

Others

Companies Profiled:

Infineon

onsemi

STMicroelectronics

Mitsubishi Electric (Vincotech)

Nexperia

Vishay Intertechnology

Toshiba

Fuji Electric

Rohm

Renesas Electronics

Diodes Incorporated

Littelfuse (IXYS)

Alpha & Omega Semiconductor

Semikron Danfoss

Hitachi Power Semiconductor Device

Microchip

Sanken Electric

Semtech

MagnaChip

Bosch

Texas Instruments

KEC Corporation

Wolfspeed

PANJIT Group

Unisonic Technologies (UTC)

Niko Semiconductor

Hangzhou Silan Microelectronics

Yangzhou Yangjie Electronic Technology

China Resources Microelectronics Limited

Jilin Sino-Microelectronics

StarPower

NCEPOWER

Prisemi

Jiangsu Jiejie Microelectronics

OmniVision Technologies

Suzhou Good-Ark Electronics

Zhuzhou CRRC Times Electric

WeEn Semiconductors

Changzhou Galaxy Century Microelectronics

MacMic Science & Technolog

BYD

BASiC Semiconductor

Shandong Jingdao Microelectronics

Sanan Optoelectronics

CETC-55

Guangdong AccoPower

YAGEO

Vishay

KOA

Panasonic

Samsung Electro-Mechanics

UNI-ROYAL

TA-I Technology

GuangDong FengHua Advanced Technology

Cyntec (Delta Electronics)

EVER OHMS

Susumu

LIZ Electronics

Isabellenh?tte

Firstohm

Juneway Electronics

Viking

TT Electronics

Taiyosha Electric

Tateyama Kagaku Industry

Bourns

Stackpole Electronics

TDK

Key Questions Answered

1. How big is the global Automotive Electronic Components market?
2. What is the demand of the global Automotive Electronic Components market?
3. What is the year over year growth of the global Automotive Electronic Components market?
4. What is the total value of the global Automotive Electronic Components market?
5. Who are the Major Players in the global Automotive Electronic Components market?
6. What are the growth factors driving the market demand?

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