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Global Automotive Power System Chips Market Growth 2026-2032

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Abstracts

The global Automotive Power System Chips market size is predicted to grow from US$ 1045 million in 2025 to US$ 1569 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 2032.

In 2025, global sales volume for automotive power management chips reached 890 million units, with an average selling price of approximately $1.20 per unit.

Automotive power system chips are integrated circuits that convert or control power, providing stable voltage or current for automotive electronic loads. They include functions such as power conversion (such as DC-DC and LDO), reference voltage, power switching, and battery management. They are a core category of analog integrated circuits. The upstream sector focuses on semiconductor materials (silicon wafers, photoresists) and manufacturing equipment (lithography machines, etching machines); the midstream sector encompasses chip design (customized power solutions) and wafer manufacturing (28nm/40nm processes balancing performance and cost); and the downstream sector encompasses automotive applications (powertrain, chassis, and cockpit systems) and system integration (OTA upgrade and optimization capabilities). There is a clear trend of industry chain collaboration, such as NXP's joint venture with TSMC and STMicroelectronics' enhanced competitiveness through regional division of labor.

Key market drivers include the following:

Growth in the automotive power system chip market is primarily driven by the rise of new energy vehicles (NEVs) and the increasing level of automotive electronics integration. In electrified vehicles, components such as batteries, electric motors,

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electronic control units, charging systems, and low-voltage power supply systems are increasingly complex; consequently, there is a significant rise in demand for voltage conversion, power management, protection control, and energy efficiency optimization across the vehicle. Power system chips—which handle functions such as power distribution, voltage regulation, monitoring, driving, and protection—serve as critical foundational components ensuring the stable operation of automotive electronic systems.

Secondly, the development of smart cockpits, intelligent driving systems, and in-vehicle computing platforms has increased the complexity of power management. As the number of chips and electronic modules within vehicles continues to rise—each with distinct requirements for voltage, current, power consumption, and transient response—traditional distributed power solutions struggle to meet the demands for high integration and high reliability. Automotive power system chips must operate stably under conditions involving high temperatures, strong electromagnetic interference, and requirements for long service life; thus, automotive-grade design, functional safety, and low power consumption capabilities have become key drivers of market demand.

Furthermore, the localization of automotive supply chains and the shift toward platform-based development are accelerating the market adoption of power chips from domestic suppliers. OEMs and Tier 1 suppliers aim to mitigate supply risks for critical chips while simultaneously enhancing system compatibility and cost control capabilities. Future competition in automotive power system chips will extend beyond the performance of individual chips to encompass reference designs, software support, system protection strategies, and experience with customer validation. Companies capable of automotive-grade mass production and possessing an understanding of vehicle platforms will be better positioned to secure long-term opportunities.

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

This Insight Report provides a comprehensive analysis of the global Automotive Power System Chips landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity.

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This report also analyzes the strategies of leading global companies with a focus on Automotive Power System Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Power System Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Power System Chips 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 Automotive Power System Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Power System Chips market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Power Conversion

Battery Management

Power Switches

Other

Segmentation by Function:

DC-DC Switching Regulator Chips

LDO Linear Regulator Chips

PMU/SBC Integrated Chips

Segmentation by Product Form:

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Integrated Chips

Discrete Chips

Segmentation by Voltage:

Low Voltage Power Chip (<40V)

Medium/High-Voltage Power Chip (60V–100V)

Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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- 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
- NXP Semiconductors

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Renesas Electronics

Texas Instruments

STMicroelectronics

ON Semiconductor

Microchip Technology

Micron Technology

Samsung Electronics

GigaDevice

Beijing SiChip (Beijing Ingenic)

Analog Devices

Nanya Technology

SemiDrive Technology

Horizon Robotics

Star Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Power System Chips market?

What factors are driving Automotive Power System Chips market growth, globally and by region?

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

How do Automotive Power System Chips market opportunities vary by end market size?

How does Automotive Power System Chips break out by Type, by Application?

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