

Global Automotive Power System Chips Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Power System Chips market size is expected to reach \$ 1618 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

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,

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.

This report studies the global Automotive Power System Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Power System Chips 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 Power System Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Power System Chips total production and demand, 2021-2032,

(Million Units)

Global Automotive Power System Chips total production value, 2021-2032, (USD Million)

Global Automotive Power System Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Automotive Power System Chips consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive Power System Chips domestic production, consumption, key domestic manufacturers and share

Global Automotive Power System Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Automotive Power System Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive Power System Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive Power System Chips market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon Technologies, NXP Semiconductors, Renesas Electronics, Texas Instruments, STMicroelectronics, ON Semiconductor, Microchip Technology, Micron Technology, Samsung Electronics, GigaDevice, 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 Power System Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, 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 Power System Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Power System Chips Market, Segmentation by Type:

Power Conversion

Battery Management

Power Switches

Other

Global Automotive Power System Chips Market, Segmentation by Function:

DC-DC Switching Regulator Chips

LDO Linear Regulator Chips

PMU/SBC Integrated Chips

Global Automotive Power System Chips Market, Segmentation by Product Form:

Integrated Chips

Discrete Chips

Global Automotive Power System Chips Market, Segmentation by Voltage:

Low Voltage Power Chip (

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