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Global Automotive Intelligent Power Switches(IPS) Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G040ABA0B6CCEN.html
Date: September 2026
Pages: 135
Price: US$ 4,480.00 (Single User License)
ID: G040ABA0B6CCEN

Abstracts

The global Automotive Intelligent Power Switches(IPS) market size is expected to reach $ 1377 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

Automotive Intelligent Power Switches (IPS) are protected automotive power-switching devices used to control electrical loads through high-side or low-side power paths. High-side IPS devices are placed between the positive power supply and the load to manage power delivery from the supply side, while low-side IPS devices are placed between the load and ground to control the return path. These products typically integrate power MOSFETs, driver circuits, overcurrent and overtemperature protection, short-circuit protection, diagnostic feedback, and software-visible control, enabling load switching, fault isolation, current protection, and operating-status monitoring in vehicle electrical systems. Their upstream supply chain mainly includes silicon wafers, photoresists, etching and deposition gases, ion implantation dopants, metallization materials, and lead frames, with representative suppliers including Shin-Etsu Chemical, JSR, and Air Liquide. The midstream segment focuses on automotive chip design, high-side and low-side IPS integration, protection and diagnostic function integration, reliability validation, mass production, supply delivery, and sales services. Downstream demand mainly comes from passenger cars and commercial vehicles, where the product is used in body electronics, lighting, HVAC, power distribution, seat control, door modules, pump loads, fan loads, and protected power lines, with representative customers including Toyota, Volkswagen, and BYD. The capacity utilization rate was 80% in 2025, and the industry average gross margin was approximately 37%. In 2025, production was approximately 1.1 billion units, with an average price of approximately USD 0.65 per unit.

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Automotive Intelligent Power Switches (IPS) will be increasingly linked to the shift from distributed electrical load control to software-managed vehicle power distribution. In passenger cars, body electronics, lighting, HVAC, seat control, door modules, pumps, fans, and zonal power nodes require protected switches that can combine load actuation with fault feedback. Commercial vehicles add demand through higher durability requirements, longer operating hours, and more auxiliary electrical loads. The product's role is moving beyond simple switching toward circuit protection, diagnostic visibility, and power-management intelligence. Future supplier differentiation will depend on automotive qualification, low loss, thermal robustness, protection accuracy, diagnostic depth, and platform reuse across multiple vehicle models.

Report Scope

This report studies the global Automotive Intelligent Power Switches(IPS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Intelligent Power Switches(IPS) 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 Intelligent Power Switches(IPS) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Intelligent Power Switches(IPS) total production and demand, 2021-2032, (Million Units)

Global Automotive Intelligent Power Switches(IPS) total production value, 2021-2032, (USD Million)

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

Global Automotive Intelligent Power Switches(IPS) consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive Intelligent Power Switches(IPS) domestic production, consumption, key domestic manufacturers and share

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

Global Automotive Intelligent Power Switches(IPS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive Intelligent Power Switches(IPS) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive Intelligent Power Switches(IPS) 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 (Germany), STMicroelectronics (Switzerland), NXP Semiconductors (Netherlands), Texas Instruments (USA), onsemi (USA), ROHM Semiconductor (Japan), Toshiba Electronic Devices & Storage Corporation (Japan), Diodes Incorporated (USA), Novosense (China), Fuji Electric (Japan), 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 Intelligent Power Switches(IPS) 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 Intelligent Power Switches(IPS) Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Intelligent Power Switches(IPS) Market, Segmentation by Type:

High-Side Switch

Low-Side Switch

Global Automotive Intelligent Power Switches(IPS) Market, Segmentation by Channel Count:

Single-Channel

Dual-Channel

Others

Global Automotive Intelligent Power Switches(IPS) Market, Segmentation by Voltage:

12V

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24V

Others

Global Automotive Intelligent Power Switches(IPS) Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Infineon Technologies (Germany)

STMicroelectronics (Switzerland)

NXP Semiconductors (Netherlands)

Texas Instruments (USA)

onsemi (USA)

ROHM Semiconductor (Japan)

Toshiba Electronic Devices & Storage Corporation (Japan)

Diodes Incorporated (USA)

Novosense (China)

Fuji Electric (Japan)

Analogy Semiconductor (China)

Winsemi (China)

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Key Questions Answered:

1. How big is the global Automotive Intelligent Power Switches(IPS) market?
2. What is the demand of the global Automotive Intelligent Power Switches(IPS) market?
3. What is the year over year growth of the global Automotive Intelligent Power Switches(IPS) market?
4. What is the production and production value of the global Automotive Intelligent Power Switches(IPS) market?
5. Who are the key producers in the global Automotive Intelligent Power Switches(IPS) market?
6. What are the growth factors driving the market demand?

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