

Global Automotive PCIe Switch Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive PCIe Switch market size is expected to reach \$ 681 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

Automotive PCIe Switch is a high-speed data interconnect device used in intelligent vehicle electronic architectures, enabling PCIe lane expansion, signal switching, packet routing, bandwidth allocation, traffic management, and error detection among ADAS, infotainment, cockpit computing, central computing, and autonomous driving control modules. Compared with general PCIe switching devices, its advantages lie in automotive-grade reliability, high bandwidth, low latency, low power consumption, strong electromagnetic compatibility, wide-temperature operation, and better suitability for distributed and centralized vehicle computing platforms. Upstream involves semiconductor wafers, packaging materials, and EDA tools, while the midstream covers chip architecture design, protocol verification, high-speed signal integrity optimization, electromagnetic compatibility design, thermal management, packaging, and testing. Downstream targets OEMs and system integrators, with typical customers including BMW, Mercedes-Benz, Toyota, Volkswagen, BYD, NIO, Xpeng, Li Auto, and Tesla. Applications include autonomous driving platforms, in-vehicle infotainment, and connected vehicle communication. North America and Europe emphasize reliability and automotive-grade certification, while China and the Asia-Pacific region are seeing faster demand growth for high-bandwidth, low-latency PCIe interconnect solutions. In 2025, production was 14.44 million units and the average price was USD 25 per unit. The industry's capacity utilization rate in 2025 was about 80%, and the average gross margin was around 60%.

Automotive PCIe Switch meets ADAS's requirements for high-speed connectivity supporting distributed and real-time security critical data processing. PCIe switches are

becoming the preferred computer interconnection solution in the automotive industry, providing ultra-low latency and low-power bandwidth scalability for automotive remote information processing, information entertainment systems, and automotive data storage systems.

This report studies the global Automotive PCIe Switch production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive PCIe Switch total production and demand, 2021-2032, (Million Units)

Global Automotive PCIe Switch total production value, 2021-2032, (USD Million)

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

Global Automotive PCIe Switch consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive PCIe Switch domestic production, consumption, key domestic manufacturers and share

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

Global Automotive PCIe Switch production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive PCIe Switch production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive PCIe Switch 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 Broadcom (USA), Astera Labs (USA), Microchip (USA), Texas Instruments (USA), ASMedia (China), Montage Technology (China), Diodes (USA), 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 PCIe Switch 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 PCIe Switch Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive PCIe Switch Market, Segmentation by Type:

PCIe 2.0

PCIe 3.0

PCIe 4.0

Others

Global Automotive PCIe Switch Market, Segmentation by Number of Ports:

4-Port

8-Port

16-Port

Others

Global Automotive PCIe Switch Market, Segmentation by Package:

BGA

LGA

Others

Global Automotive PCIe Switch Market, Segmentation by Application:

Passenger Cars

Commercial Vehicle

Companies Profiled:

Broadcom (USA)

Astera Labs (USA)

Microchip (USA)

Texas Instruments (USA)

ASMedia (China)

Montage Technology (China)

Diodes (USA)

Key Questions Answered:

1. How big is the global Automotive PCIe Switch market?
2. What is the demand of the global Automotive PCIe Switch market?
3. What is the year over year growth of the global Automotive PCIe Switch market?
4. What is the production and production value of the global Automotive PCIe Switch market?
5. Who are the key producers in the global Automotive PCIe Switch market?
6. What are the growth factors driving the market demand?

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