

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

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Abstracts

The global Automotive-Qualified 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).

The Automotive-Qualified PCIe Switch is a core high-performance data transmission component in intelligent automotive electronic systems, supporting high-speed signal routing, packet forwarding, traffic management, and error detection to ensure reliable communication among ADAS, infotainment, in-vehicle computing, and autonomous driving control modules. The chip is manufactured using advanced processes, meeting automotive-grade temperature and electromagnetic compatibility requirements, and features high reliability, high bandwidth, and low power consumption. Upstream involves semiconductor wafers, packaging materials, and EDA tools, while the midstream covers chip design, verification, and packaging/testing, focusing on high-speed signal integrity, EMC, and thermal management. 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 rapid growth in demand for high-bandwidth, low-latency PCIe 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%.

The market for Automotive-Qualified PCIe Switches is expanding rapidly, driven by upgrades in intelligent connected vehicle and autonomous driving electronic architectures. High-performance central computing platforms have significantly

increased the demand for low-latency, multi-channel high-speed communication chips, while the growing electronics integration in passenger and commercial vehicles has raised the overall vehicle data bus load. On the regulatory side, Europe, the U.S., China, and Japan have rolled out standards for intelligent connected vehicles and V2X communication, demanding higher bandwidth and reliability from in-vehicle networks and accelerating chip iteration. Technological innovation remains a key growth driver: advanced process nodes such as FinFET enhance operating frequencies and reduce power consumption, while high-speed signal integrity optimization, integrated traffic control, and automotive-grade verification ensure stable performance in complex in-vehicle environments. Moreover, the rapid adoption of new energy vehicles and electric commercial vehicles is driving the use of PCIe switches in high-reliability battery management systems and advanced driver-assistance systems, further expanding market opportunities.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

Global Automotive-Qualified PCIe Switch production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive-Qualified 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-Qualified 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-Qualified PCIe Switch Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive-Qualified PCIe Switch Market, Segmentation by Type:

PCIe 2.0

PCIe 3.0

PCIe 4.0

Others

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

4-Port

8-Port

16-Port

Others

Global Automotive-Qualified PCIe Switch Market, Segmentation by Package:

BGA

LGA

Others

Global Automotive-Qualified PCIe Switch Market, Segmentation by Switching Architecture:

Single-Level Switch Type

Multi-Level Switch Type

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

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