

Global Automotive Grade PCIe Switch Market Growth 2026-2032

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Abstracts

The global Automotive Grade PCIe Switch market size is predicted to grow from US\$ 353 million in 2025 to US\$ 668 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 2032.

The Automotive-Grade 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 (EMC) 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, with a focus 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 growth of the Automotive-Grade PCIe Switch market is primarily driven by the upgrade of 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 rising level of electronics in passenger and commercial vehicles has elevated the overall vehicle data bus load. From a policy perspective, the implementation of intelligent connected vehicle standards and V2X communication regulations in Europe, the U.S., China, and Japan requires in-vehicle networks to provide higher bandwidth and reliability, driving chip iteration and upgrades. Technological innovation is also a key driver: FinFET and more advanced process nodes improve operating frequency and reduce power consumption, while high-speed signal integrity optimization, integrated traffic control, and automotive-grade verification capabilities ensure stable chip operation in complex in-vehicle environments. Additionally, the accelerated deployment of new energy vehicles and electric commercial vehicles demands that PCIe switches support high-reliability battery management systems and advanced driver-assistance systems, further expanding the market application space.

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

This Insight Report provides a comprehensive analysis of the global Automotive Grade PCIe Switch landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Grade PCIe Switch portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Grade PCIe Switch market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Grade PCIe Switch 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 Grade PCIe Switch.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Grade PCIe Switch market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PCIe 2.0

PCIe 3.0

PCIe 4.0

Others

Segmentation by Number of Ports:

4-Port

8-Port

16-Port

Others

Segmentation by Package:

BGA

LGA

Others

Segmentation by Switching Architecture:

Single-Level Switch Type

Multi-Level Switch Type

Segmentation by Application:

Passenger Cars

Commercial Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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.

Broadcom (USA)

Astera Labs (USA)

Microchip (USA)

Texas Instruments (USA)

ASMedia (China)

Montage Technology (China)

Diodes (USA)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Grade PCIe Switch market?

What factors are driving Automotive Grade PCIe Switch market growth, globally and by region?

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

How do Automotive Grade PCIe Switch market opportunities vary by end market size?

How does Automotive Grade PCIe Switch break out by Type, by Application?

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