

Global PCIe Packet Switch Market Growth 2026-2032

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Abstracts

The global PCIe Packet Switch market size is predicted to grow from US\$ 1174 million in 2025 to US\$ 2932 million in 2032; it is expected to grow at a CAGR of 14.0% from 2026 to 2032.

PCIe Packet Switch is a core component for building high-performance computing and storage interconnect architectures, responsible for multi-port, low-latency data packet routing and traffic management within the PCI Express bus topology, serving as critical infrastructure for I/O bandwidth expansion. The PCIe Packet Switch supply chain consists of Upstream, Midstream, and Downstream segments. The Upstream segment mainly provides core wafer fabrication, lithography technology, and advanced packaging services, with top supplier representatives including TSMC, ASML, and ASE Technology Holding; the Midstream segment focuses on the specialized design, manufacturing, and supply of the switch chips; the Downstream market covers end-application fields with strict requirements for high-port density and high-bandwidth interconnects in data center and enterprise storage sectors, specifically including Server and SSD, with top Downstream company representatives being Dell, Samsung, and Western Digital. In 2025, production was 40 million units and the average price was USD 30 per unit. The industry's capacity utilization rate in 2025 was about 80%, and the average gross margin was around 60%.

As global data volumes explode, cloud computing infrastructure continues to demand increased scalability, virtualization, and high-speed interconnectivity. The PCIe Packet Switch is a core enabler for realizing high-density I/O expansion both within servers and across racks. With the PCIe standard advancing to Gen6 and beyond, its throughput and low-latency performance become paramount. To meet the immense data exchange needs of Artificial Intelligence accelerators, High-Performance Computing clusters, and hyperscale data centers, its market size is inevitably set for robust growth, ensuring a positive long-term outlook.

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

This Insight Report provides a comprehensive analysis of the global PCIe Packet 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 PCIe Packet Switch portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PCIe Packet Switch market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of PCIe Packet 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 Channel:

1-Lane Type

2-Lane Type

4-Lane Type

Others

Segmentation by Application:

Server

SSD

Others

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 PCIe Packet Switch market?

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

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

How do PCIe Packet Switch market opportunities vary by end market size?

How does PCIe Packet Switch break out by Type, by Application?

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