

Global Enterprise Level PCIe Switch Market Growth 2026-2032

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Abstracts

The global Enterprise Level PCIe Switch market size is predicted to grow from US\$ 607 million in 2025 to US\$ 1593 million in 2032; it is expected to grow at a CAGR of 14.8% from 2026 to 2032.

Enterprise Level PCIe Switch is a core component used in high-performance computing, data centers, and server interconnects, enabling high-speed communication and bandwidth optimization among multiple devices to ensure stable operation of large-scale data processing and storage systems. The upstream of enterprise-grade PCIe switch chips includes semiconductor materials such as silicon wafers, photoresists, and high-purity electronic specialty gases, with representative suppliers including Shin-Etsu Chemical, SUMCO, and Air Liquide; the midstream consists of chip design and system integration companies; and the downstream mainly includes servers and SSD applications, represented by Dell Technologies, Hewlett Packard Enterprise, and Samsung Electronics. In 2025, production was 20 million units and the average price was USD 31 per unit. The industry's capacity utilization rate in 2025 was about 80%, and the average gross margin was around 63%.

With the rapid expansion of AI training, cloud computing, and high-performance data centers, demand for enterprise-level PCIe switch chips has grown significantly. Their role in high-bandwidth, low-latency interconnects makes them vital for server architecture upgrades and computational scalability. Over the next five to ten years, driven by next-generation interface standards, chiplet architectures, and advanced packaging technologies, the market will continue its strong growth, with major manufacturers increasing R&D investment and enterprise-level PCIe switch chips becoming a core driver of intelligent computing and data infrastructure development.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Enterprise Level 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:

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 Enterprise Level PCIe Switch market?

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

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

How do Enterprise Level PCIe Switch market opportunities vary by end market size?

How does Enterprise Level PCIe Switch break out by Type, by Application?

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