

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

<https://marketpublishers.com/r/GAF987F75967EN.html>

Date: July 2026

Pages: 112

Price: US\$ 4,480.00 (Single User License)

ID: GAF987F75967EN

Abstracts

The global Enterprise Level PCIe Switch market size is expected to reach \$ 1601 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

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.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Enterprise Level 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 Enterprise Level 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 Enterprise Level PCIe Switch Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Enterprise Level PCIe Switch Market, Segmentation by Type:

PCIe 2.0

PCIe 3.0

PCIe 4.0

Others

Global Enterprise Level PCIe Switch Market, Segmentation by Number of Ports:

4-Port

8-Port

16-Port

Others

Global Enterprise Level PCIe Switch Market, Segmentation by Package:

BGA

LGA

Others

Global Enterprise Level PCIe Switch Market, Segmentation by Switching Architecture:

Single-Level Switch Type

Multi-Level Switch Type

Global Enterprise Level PCIe Switch Market, Segmentation by Application:

Server

SSD

Others

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

Contents

1 SUPPLY SUMMARY

- 1.1 Enterprise Level PCIe Switch Introduction
- 1.2 World Enterprise Level PCIe Switch Supply & Forecast
 - 1.2.1 World Enterprise Level PCIe Switch Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Enterprise Level PCIe Switch Production (2021-2032)
 - 1.2.3 World Enterprise Level PCIe Switch Pricing Trends (2021-2032)
- 1.3 World Enterprise Level PCIe Switch Production by Region (Based on Production Site)
 - 1.3.1 World Enterprise Level PCIe Switch Production Value by Region (2021-2032)
 - 1.3.2 World Enterprise Level PCIe Switch Production by Region (2021-2032)
 - 1.3.3 World Enterprise Level PCIe Switch Average Price by Region (2021-2032)
 - 1.3.4 North America Enterprise Level PCIe Switch Production (2021-2032)
 - 1.3.5 Europe Enterprise Level PCIe Switch Production (2021-2032)
 - 1.3.6 China Enterprise Level PCIe Switch Production (2021-2032)
 - 1.3.7 Japan Enterprise Level PCIe Switch Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Enterprise Level PCIe Switch Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Enterprise Level PCIe Switch Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Enterprise Level PCIe Switch Demand (2021-2032)
- 2.2 World Enterprise Level PCIe Switch Consumption by Region
 - 2.2.1 World Enterprise Level PCIe Switch Consumption by Region (2021-2026)
 - 2.2.2 World Enterprise Level PCIe Switch Consumption Forecast by Region (2027-2032)
- 2.3 United States Enterprise Level PCIe Switch Consumption (2021-2032)
- 2.4 China Enterprise Level PCIe Switch Consumption (2021-2032)
- 2.5 Europe Enterprise Level PCIe Switch Consumption (2021-2032)
- 2.6 Japan Enterprise Level PCIe Switch Consumption (2021-2032)
- 2.7 South Korea Enterprise Level PCIe Switch Consumption (2021-2032)
- 2.8 ASEAN Enterprise Level PCIe Switch Consumption (2021-2032)
- 2.9 India Enterprise Level PCIe Switch Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Enterprise Level PCIe Switch Production Value by Manufacturer (2021-2026)
- 3.2 World Enterprise Level PCIe Switch Production by Manufacturer (2021-2026)
- 3.3 World Enterprise Level PCIe Switch Average Price by Manufacturer (2021-2026)
- 3.4 Enterprise Level PCIe Switch Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Enterprise Level PCIe Switch Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Enterprise Level PCIe Switch in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Enterprise Level PCIe Switch in 2025
- 3.6 Enterprise Level PCIe Switch Market: Overall Company Footprint Analysis
 - 3.6.1 Enterprise Level PCIe Switch Market: Region Footprint
 - 3.6.2 Enterprise Level PCIe Switch Market: Company Product Type Footprint
 - 3.6.3 Enterprise Level PCIe Switch Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Enterprise Level PCIe Switch Production Value Comparison
 - 4.1.1 United States VS China: Enterprise Level PCIe Switch Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Enterprise Level PCIe Switch Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Enterprise Level PCIe Switch Production Comparison
 - 4.2.1 United States VS China: Enterprise Level PCIe Switch Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Enterprise Level PCIe Switch Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Enterprise Level PCIe Switch Consumption Comparison
 - 4.3.1 United States VS China: Enterprise Level PCIe Switch Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Enterprise Level PCIe Switch Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Enterprise Level PCIe Switch Manufacturers and Market

Share, 2021-2026

4.4.1 United States Based Enterprise Level PCIe Switch Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Enterprise Level PCIe Switch Production Value (2021-2026)

4.4.3 United States Based Manufacturers Enterprise Level PCIe Switch Production (2021-2026)

4.5 China Based Enterprise Level PCIe Switch Manufacturers and Market Share

4.5.1 China Based Enterprise Level PCIe Switch Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Enterprise Level PCIe Switch Production Value (2021-2026)

4.5.3 China Based Manufacturers Enterprise Level PCIe Switch Production (2021-2026)

4.6 Rest of World Based Enterprise Level PCIe Switch Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Enterprise Level PCIe Switch Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Enterprise Level PCIe Switch Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Enterprise Level PCIe Switch Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Enterprise Level PCIe Switch Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 PCIe 2.0

5.2.2 PCIe 3.0

5.2.3 PCIe 4.0

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Enterprise Level PCIe Switch Production by Type (2021-2032)

5.3.2 World Enterprise Level PCIe Switch Production Value by Type (2021-2032)

5.3.3 World Enterprise Level PCIe Switch Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY NUMBER OF PORTS

6.1 World Enterprise Level PCIe Switch Market Size Overview by Number of Ports: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Number of Ports

6.2.1 4-Port

6.2.2 8-Port

6.2.3 16-Port

6.2.4 Others

6.3 Market Segment by Number of Ports

6.3.1 World Enterprise Level PCIe Switch Production by Number of Ports (2021-2032)

6.3.2 World Enterprise Level PCIe Switch Production Value by Number of Ports (2021-2032)

6.3.3 World Enterprise Level PCIe Switch Average Price by Number of Ports (2021-2032)

7 MARKET ANALYSIS BY PACKAGE

7.1 World Enterprise Level PCIe Switch Market Size Overview by Package: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Package

7.2.1 BGA

7.2.2 LGA

7.2.3 Others

7.3 Market Segment by Package

7.3.1 World Enterprise Level PCIe Switch Production by Package (2021-2032)

7.3.2 World Enterprise Level PCIe Switch Production Value by Package (2021-2032)

7.3.3 World Enterprise Level PCIe Switch Average Price by Package (2021-2032)

8 MARKET ANALYSIS BY SWITCHING ARCHITECTURE

8.1 World Enterprise Level PCIe Switch Market Size Overview by Switching Architecture: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Switching Architecture

8.2.1 Single-Level Switch Type

8.2.2 Multi-Level Switch Type

8.3 Market Segment by Switching Architecture

8.3.1 World Enterprise Level PCIe Switch Production by Switching Architecture (2021-2032)

8.3.2 World Enterprise Level PCIe Switch Production Value by Switching Architecture (2021-2032)

8.3.3 World Enterprise Level PCIe Switch Average Price by Switching Architecture (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Enterprise Level PCIe Switch Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Server

9.2.2 SSD

9.2.3 Others

9.3 Market Segment by Application

9.3.1 World Enterprise Level PCIe Switch Production by Application (2021-2032)

9.3.2 World Enterprise Level PCIe Switch Production Value by Application (2021-2032)

9.3.3 World Enterprise Level PCIe Switch Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Broadcom (USA)

10.1.1 Broadcom (USA) Details

10.1.2 Broadcom (USA) Major Business

10.1.3 Broadcom (USA) Enterprise Level PCIe Switch Product and Services

10.1.4 Broadcom (USA) Enterprise Level PCIe Switch Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Broadcom (USA) Recent Developments/Updates

10.1.6 Broadcom (USA) Competitive Strengths & Weaknesses

10.2 Astera Labs (USA)

10.2.1 Astera Labs (USA) Details

10.2.2 Astera Labs (USA) Major Business

10.2.3 Astera Labs (USA) Enterprise Level PCIe Switch Product and Services

10.2.4 Astera Labs (USA) Enterprise Level PCIe Switch Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Astera Labs (USA) Recent Developments/Updates

10.2.6 Astera Labs (USA) Competitive Strengths & Weaknesses

10.3 Microchip (USA)

10.3.1 Microchip (USA) Details

10.3.2 Microchip (USA) Major Business

10.3.3 Microchip (USA) Enterprise Level PCIe Switch Product and Services

- 10.3.4 Microchip (USA) Enterprise Level PCIe Switch Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.3.5 Microchip (USA) Recent Developments/Updates
- 10.3.6 Microchip (USA) Competitive Strengths & Weaknesses
- 10.4 Texas Instruments (USA)
 - 10.4.1 Texas Instruments (USA) Details
 - 10.4.2 Texas Instruments (USA) Major Business
 - 10.4.3 Texas Instruments (USA) Enterprise Level PCIe Switch Product and Services
 - 10.4.4 Texas Instruments (USA) Enterprise Level PCIe Switch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.4.5 Texas Instruments (USA) Recent Developments/Updates
 - 10.4.6 Texas Instruments (USA) Competitive Strengths & Weaknesses
- 10.5 ASMedia (China)
 - 10.5.1 ASMedia (China) Details
 - 10.5.2 ASMedia (China) Major Business
 - 10.5.3 ASMedia (China) Enterprise Level PCIe Switch Product and Services
 - 10.5.4 ASMedia (China) Enterprise Level PCIe Switch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 ASMedia (China) Recent Developments/Updates
 - 10.5.6 ASMedia (China) Competitive Strengths & Weaknesses
- 10.6 Montage Technology (China)
 - 10.6.1 Montage Technology (China) Details
 - 10.6.2 Montage Technology (China) Major Business
 - 10.6.3 Montage Technology (China) Enterprise Level PCIe Switch Product and Services
 - 10.6.4 Montage Technology (China) Enterprise Level PCIe Switch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Montage Technology (China) Recent Developments/Updates
 - 10.6.6 Montage Technology (China) Competitive Strengths & Weaknesses
- 10.7 Diodes (USA)
 - 10.7.1 Diodes (USA) Details
 - 10.7.2 Diodes (USA) Major Business
 - 10.7.3 Diodes (USA) Enterprise Level PCIe Switch Product and Services
 - 10.7.4 Diodes (USA) Enterprise Level PCIe Switch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Diodes (USA) Recent Developments/Updates
 - 10.7.6 Diodes (USA) Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Enterprise Level PCIe Switch Industry Chain
- 11.2 Enterprise Level PCIe Switch Upstream Analysis
 - 11.2.1 Enterprise Level PCIe Switch Core Raw Materials
 - 11.2.2 Main Manufacturers of Enterprise Level PCIe Switch Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Enterprise Level PCIe Switch Production Mode
- 11.6 Enterprise Level PCIe Switch Procurement Model
- 11.7 Enterprise Level PCIe Switch Industry Sales Model and Sales Channels
 - 11.7.1 Enterprise Level PCIe Switch Sales Model
 - 11.7.2 Enterprise Level PCIe Switch Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Enterprise Level PCIe Switch Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Enterprise Level PCIe Switch Production Value by Region (2021-2026) & (USD Million)

Table 3. World Enterprise Level PCIe Switch Production Value by Region (2027-2032) & (USD Million)

Table 4. World Enterprise Level PCIe Switch Production Value Market Share by Region (2021-2026)

Table 5. World Enterprise Level PCIe Switch Production Value Market Share by Region (2027-2032)

Table 6. World Enterprise Level PCIe Switch Production by Region (2021-2026) & (Million Units)

Table 7. World Enterprise Level PCIe Switch Production by Region (2027-2032) & (Million Units)

Table 8. World Enterprise Level PCIe Switch Production Market Share by Region (2021-2026)

Table 9. World Enterprise Level PCIe Switch Production Market Share by Region (2027-2032)

Table 10. World Enterprise Level PCIe Switch Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Enterprise Level PCIe Switch Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Enterprise Level PCIe Switch Major Market Trends

Table 13. World Enterprise Level PCIe Switch Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Enterprise Level PCIe Switch Consumption by Region (2021-2026) & (Million Units)

Table 15. World Enterprise Level PCIe Switch Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Enterprise Level PCIe Switch Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Enterprise Level PCIe Switch Producers in 2025

Table 18. World Enterprise Level PCIe Switch Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Enterprise Level PCIe Switch Producers in 2025

Table 20. World Enterprise Level PCIe Switch Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Enterprise Level PCIe Switch Company Evaluation Quadrant

Table 22. World Enterprise Level PCIe Switch Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Enterprise Level PCIe Switch Production Site of Key Manufacturer

Table 24. Enterprise Level PCIe Switch Market: Company Product Type Footprint

Table 25. Enterprise Level PCIe Switch Market: Company Product Application Footprint

Table 26. Enterprise Level PCIe Switch Competitive Factors

Table 27. Enterprise Level PCIe Switch New Entrant and Capacity Expansion Plans

Table 28. Enterprise Level PCIe Switch Mergers & Acquisitions Activity

Table 29. United States VS China Enterprise Level PCIe Switch Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Enterprise Level PCIe Switch Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Enterprise Level PCIe Switch Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Enterprise Level PCIe Switch Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Enterprise Level PCIe Switch Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Enterprise Level PCIe Switch Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Enterprise Level PCIe Switch Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Enterprise Level PCIe Switch Production Market Share (2021-2026)

Table 37. China Based Enterprise Level PCIe Switch Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Enterprise Level PCIe Switch Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Enterprise Level PCIe Switch Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Enterprise Level PCIe Switch Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Enterprise Level PCIe Switch Production Market

Share (2021-2026)

Table 42. Rest of World Based Enterprise Level PCIe Switch Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Enterprise Level PCIe Switch Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Enterprise Level PCIe Switch Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Enterprise Level PCIe Switch Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Enterprise Level PCIe Switch Production Market Share (2021-2026)

Table 47. World Enterprise Level PCIe Switch Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Enterprise Level PCIe Switch Production by Type (2021-2026) & (Million Units)

Table 49. World Enterprise Level PCIe Switch Production by Type (2027-2032) & (Million Units)

Table 50. World Enterprise Level PCIe Switch Production Value by Type (2021-2026) & (USD Million)

Table 51. World Enterprise Level PCIe Switch Production Value by Type (2027-2032) & (USD Million)

Table 52. World Enterprise Level PCIe Switch Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Enterprise Level PCIe Switch Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Enterprise Level PCIe Switch Production Value by Number of Ports, (USD Million), 2021 & 2025 & 2032

Table 55. World Enterprise Level PCIe Switch Production by Number of Ports (2021-2026) & (Million Units)

Table 56. World Enterprise Level PCIe Switch Production by Number of Ports (2027-2032) & (Million Units)

Table 57. World Enterprise Level PCIe Switch Production Value by Number of Ports (2021-2026) & (USD Million)

Table 58. World Enterprise Level PCIe Switch Production Value by Number of Ports (2027-2032) & (USD Million)

Table 59. World Enterprise Level PCIe Switch Average Price by Number of Ports (2021-2026) & (US\$/Unit)

Table 60. World Enterprise Level PCIe Switch Average Price by Number of Ports (2027-2032) & (US\$/Unit)

Table 61. World Enterprise Level PCIe Switch Production Value by Package, (USD Million), 2021 & 2025 & 2032

Table 62. World Enterprise Level PCIe Switch Production by Package (2021-2026) & (Million Units)

Table 63. World Enterprise Level PCIe Switch Production by Package (2027-2032) & (Million Units)

Table 64. World Enterprise Level PCIe Switch Production Value by Package (2021-2026) & (USD Million)

Table 65. World Enterprise Level PCIe Switch Production Value by Package (2027-2032) & (USD Million)

Table 66. World Enterprise Level PCIe Switch Average Price by Package (2021-2026) & (US\$/Unit)

Table 67. World Enterprise Level PCIe Switch Average Price by Package (2027-2032) & (US\$/Unit)

Table 68. World Enterprise Level PCIe Switch Production Value by Switching Architecture, (USD Million), 2021 & 2025 & 2032

Table 69. World Enterprise Level PCIe Switch Production by Switching Architecture (2021-2026) & (Million Units)

Table 70. World Enterprise Level PCIe Switch Production by Switching Architecture (2027-2032) & (Million Units)

Table 71. World Enterprise Level PCIe Switch Production Value by Switching Architecture (2021-2026) & (USD Million)

Table 72. World Enterprise Level PCIe Switch Production Value by Switching Architecture (2027-2032) & (USD Million)

Table 73. World Enterprise Level PCIe Switch Average Price by Switching Architecture (2021-2026) & (US\$/Unit)

Table 74. World Enterprise Level PCIe Switch Average Price by Switching Architecture (2027-2032) & (US\$/Unit)

Table 75. World Enterprise Level PCIe Switch Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Enterprise Level PCIe Switch Production by Application (2021-2026) & (Million Units)

Table 77. World Enterprise Level PCIe Switch Production by Application (2027-2032) & (Million Units)

Table 78. World Enterprise Level PCIe Switch Production Value by Application (2021-2026) & (USD Million)

Table 79. World Enterprise Level PCIe Switch Production Value by Application (2027-2032) & (USD Million)

Table 80. World Enterprise Level PCIe Switch Average Price by Application

(2021-2026) & (US\$/Unit)

Table 81. World Enterprise Level PCIe Switch Average Price by Application

(2027-2032) & (US\$/Unit)

Table 82. Broadcom (USA) Basic Information, Manufacturing Base and Competitors

Table 83. Broadcom (USA) Major Business

Table 84. Broadcom (USA) Enterprise Level PCIe Switch Product and Services

Table 85. Broadcom (USA) Enterprise Level PCIe Switch Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Broadcom (USA) Recent Developments/Updates

Table 87. Broadcom (USA) Competitive Strengths & Weaknesses

Table 88. Astera Labs (USA) Basic Information, Manufacturing Base and Competitors

Table 89. Astera Labs (USA) Major Business

Table 90. Astera Labs (USA) Enterprise Level PCIe Switch Product and Services

Table 91. Astera Labs (USA) Enterprise Level PCIe Switch Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Astera Labs (USA) Recent Developments/Updates

Table 93. Astera Labs (USA) Competitive Strengths & Weaknesses

Table 94. Microchip (USA) Basic Information, Manufacturing Base and Competitors

Table 95. Microchip (USA) Major Business

Table 96. Microchip (USA) Enterprise Level PCIe Switch Product and Services

Table 97. Microchip (USA) Enterprise Level PCIe Switch Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Microchip (USA) Recent Developments/Updates

Table 99. Microchip (USA) Competitive Strengths & Weaknesses

Table 100. Texas Instruments (USA) Basic Information, Manufacturing Base and Competitors

Table 101. Texas Instruments (USA) Major Business

Table 102. Texas Instruments (USA) Enterprise Level PCIe Switch Product and Services

Table 103. Texas Instruments (USA) Enterprise Level PCIe Switch Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Texas Instruments (USA) Recent Developments/Updates

Table 105. Texas Instruments (USA) Competitive Strengths & Weaknesses

Table 106. ASMedia (China) Basic Information, Manufacturing Base and Competitors

Table 107. ASMedia (China) Major Business

Table 108. ASMedia (China) Enterprise Level PCIe Switch Product and Services

Table 109. ASMedia (China) Enterprise Level PCIe Switch Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. ASMedia (China) Recent Developments/Updates

Table 111. ASMedia (China) Competitive Strengths & Weaknesses

Table 112. Montage Technology (China) Basic Information, Manufacturing Base and Competitors

Table 113. Montage Technology (China) Major Business

Table 114. Montage Technology (China) Enterprise Level PCIe Switch Product and Services

Table 115. Montage Technology (China) Enterprise Level PCIe Switch Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Montage Technology (China) Recent Developments/Updates

Table 117. Montage Technology (China) Competitive Strengths & Weaknesses

Table 118. Diodes (USA) Basic Information, Manufacturing Base and Competitors

Table 119. Diodes (USA) Major Business

Table 120. Diodes (USA) Enterprise Level PCIe Switch Product and Services

Table 121. Diodes (USA) Enterprise Level PCIe Switch Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Diodes (USA) Recent Developments/Updates

Table 123. Diodes (USA) Competitive Strengths & Weaknesses

Table 124. Global Key Players of Enterprise Level PCIe Switch Upstream (Raw Materials)

Table 125. Global Enterprise Level PCIe Switch Typical Customers

Table 126. Enterprise Level PCIe Switch Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Enterprise Level PCIe Switch Picture

Figure 2. World Enterprise Level PCIe Switch Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Enterprise Level PCIe Switch Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Enterprise Level PCIe Switch Production (2021-2032) & (Million Units)

Figure 5. World Enterprise Level PCIe Switch Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Enterprise Level PCIe Switch Production Value Market Share by Region (2021-2032)

Figure 7. World Enterprise Level PCIe Switch Production Market Share by Region (2021-2032)

Figure 8. North America Enterprise Level PCIe Switch Production (2021-2032) & (Million Units)

Figure 9. Europe Enterprise Level PCIe Switch Production (2021-2032) & (Million Units)

Figure 10. China Enterprise Level PCIe Switch Production (2021-2032) & (Million Units)

Figure 11. Japan Enterprise Level PCIe Switch Production (2021-2032) & (Million Units)

Figure 12. Enterprise Level PCIe Switch Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Enterprise Level PCIe Switch Consumption (2021-2032) & (Million Units)

Figure 15. World Enterprise Level PCIe Switch Consumption Market Share by Region (2021-2032)

Figure 16. United States Enterprise Level PCIe Switch Consumption (2021-2032) & (Million Units)

Figure 17. China Enterprise Level PCIe Switch Consumption (2021-2032) & (Million Units)

Figure 18. Europe Enterprise Level PCIe Switch Consumption (2021-2032) & (Million Units)

Figure 19. Japan Enterprise Level PCIe Switch Consumption (2021-2032) & (Million Units)

Figure 20. South Korea Enterprise Level PCIe Switch Consumption (2021-2032) & (Million Units)

Figure 21. ASEAN Enterprise Level PCIe Switch Consumption (2021-2032) & (Million Units)

Figure 22. India Enterprise Level PCIe Switch Consumption (2021-2032) & (Million

Units)

Figure 23. Producer Shipments of Enterprise Level PCIe Switch by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Enterprise Level PCIe Switch Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Enterprise Level PCIe Switch Markets in 2025

Figure 26. United States VS China: Enterprise Level PCIe Switch Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Enterprise Level PCIe Switch Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Enterprise Level PCIe Switch Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Enterprise Level PCIe Switch Production Market Share 2025

Figure 30. China Based Manufacturers Enterprise Level PCIe Switch Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Enterprise Level PCIe Switch Production Market Share 2025

Figure 32. World Enterprise Level PCIe Switch Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Enterprise Level PCIe Switch Production Value Market Share by Type in 2025

Figure 34. PCIe 2.0

Figure 35. PCIe 3.0

Figure 36. PCIe 4.0

Figure 37. Others

Figure 38. World Enterprise Level PCIe Switch Production Market Share by Type (2021-2032)

Figure 39. World Enterprise Level PCIe Switch Production Value Market Share by Type (2021-2032)

Figure 40. World Enterprise Level PCIe Switch Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Enterprise Level PCIe Switch Production Value by Number of Ports, (USD Million), 2021 & 2025 & 2032

Figure 42. World Enterprise Level PCIe Switch Production Value Market Share by Number of Ports in 2025

Figure 43. 4-Port

Figure 44. 8-Port

Figure 45. 16-Port

Figure 46. Others

Figure 47. World Enterprise Level PCIe Switch Production Market Share by Number of Ports (2021-2032)

Figure 48. World Enterprise Level PCIe Switch Production Value Market Share by Number of Ports (2021-2032)

Figure 49. World Enterprise Level PCIe Switch Average Price by Number of Ports (2021-2032) & (US\$/Unit)

Figure 50. World Enterprise Level PCIe Switch Production Value by Package, (USD Million), 2021 & 2025 & 2032

Figure 51. World Enterprise Level PCIe Switch Production Value Market Share by Package in 2025

Figure 52. BGA

Figure 53. LGA

Figure 54. Others

Figure 55. World Enterprise Level PCIe Switch Production Market Share by Package (2021-2032)

Figure 56. World Enterprise Level PCIe Switch Production Value Market Share by Package (2021-2032)

Figure 57. World Enterprise Level PCIe Switch Average Price by Package (2021-2032) & (US\$/Unit)

Figure 58. World Enterprise Level PCIe Switch Production Value by Switching Architecture, (USD Million), 2021 & 2025 & 2032

Figure 59. World Enterprise Level PCIe Switch Production Value Market Share by Switching Architecture in 2025

Figure 60. Single-Level Switch Type

Figure 61. Multi-Level Switch Type

Figure 62. World Enterprise Level PCIe Switch Production Market Share by Switching Architecture (2021-2032)

Figure 63. World Enterprise Level PCIe Switch Production Value Market Share by Switching Architecture (2021-2032)

Figure 64. World Enterprise Level PCIe Switch Average Price by Switching Architecture (2021-2032) & (US\$/Unit)

Figure 65. World Enterprise Level PCIe Switch Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World Enterprise Level PCIe Switch Production Value Market Share by Application in 2025

Figure 67. Server

Figure 68. SSD

Figure 69. Others

Figure 70. World Enterprise Level PCIe Switch Production Market Share by Application (2021-2032)

Figure 71. World Enterprise Level PCIe Switch Production Value Market Share by Application (2021-2032)

Figure 72. World Enterprise Level PCIe Switch Average Price by Application (2021-2032) & (US\$/Unit)

Figure 73. Enterprise Level PCIe Switch Industry Chain

Figure 74. Enterprise Level PCIe Switch Procurement Model

Figure 75. Enterprise Level PCIe Switch Sales Model

Figure 76. Enterprise Level PCIe Switch Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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