

Global PCIe Digital I/O Card Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PCIe Digital I/O Card market size is expected to reach \$ 372 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032). Global shipments of PCIe Digital I/O Cards are projected to reach approximately 1.1 million cards by 2025, priced around \$218 per card. Primary demand comes from industrial automation control systems, process industry PLC expansion, rail transit signaling and onboard equipment, energy and power monitoring systems, and test and measurement platforms. The Asia-Pacific market accounts for approximately 45%–50%, with Taiwan, Japan, and mainland China being the main markets for manufacturing and system integration. Product prices vary depending on isolation method (optical/capacitive/magnetic isolation), number of channels (8/16/32/64 DI/DO), withstand voltage rating (2.5kVrms–5kVrms), and certification requirements (CE/UL/EN 61010/rail transit standards). High-isolation, high-consistency models targeting rail transit, energy, and high-reliability testing systems can reach prices as high as \$280–420 per card. From an equipment configuration perspective, a single PLC expansion rack or IPC control system typically uses 1-2 PCIe digital I/O cards for critical switching signals. In scenarios with multiple field loops, long cables, or strong electromagnetic interference (such as at the end of a production line, in areas with dense inverters, or in vehicle systems), 3-6 isolated cards are commonly deployed in parallel. These products are basic functional components in the system, with a small number of points but extremely high safety weight. Their value lies not in throughput or refresh rate, but in avoiding the risks of false triggering, cascading damage, and system-level downtime. PCIe digital I/O cards are industrial I/O expansion modules that completely electrically isolate field-side digital signals from the control logic side through optocouplers, digital isolators, or isolated power supplies. They are mainly used to safely connect switching signals from sensors, buttons, relays, proximity switches, etc., to PLCs, IPCs, or embedded control systems. Their core function is not 'more points,'

but rather to serve as a safety buffer layer in high-noise, high-voltage-difference, and complex grounding environments.

This report studies the global PCIe Digital I/O Card production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PCIe Digital I/O Card 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 PCIe Digital I/O Card that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PCIe Digital I/O Card total production and demand, 2021-2032, (K Units)

Global PCIe Digital I/O Card total production value, 2021-2032, (USD Million)

Global PCIe Digital I/O Card production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PCIe Digital I/O Card consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PCIe Digital I/O Card domestic production, consumption, key domestic manufacturers and share

Global PCIe Digital I/O Card production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global PCIe Digital I/O Card production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PCIe Digital I/O Card production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PCIe Digital I/O Card 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 Advantech (Public, Taipei, China Taiwan), ADLINK (Public, Taoyuan, China Taiwan), Contec (Public, Osaka, Japan), Sealevel (Private, Liberty, USA), SUNIX (Private, Taipei, China Taiwan), ACCES I/O (Private, San Diego, USA), Texas Instruments (Public, Dallas, USA), Diamond Systems (Private, Sunnyvale, USA), Speedgoat (Private, Bern, Switzerland), Axiomtek (Public, Taipei, China Taiwan), 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 PCIe Digital I/O Card market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 PCIe Digital I/O Card Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PCIe Digital I/O Card Market, Segmentation by Type:

8 Channel

16 Channel

32 Channel

128 Channel

Others

Global PCIe Digital I/O Card Market, Segmentation by Isolation Withstand Voltage Rating:

1.5 kVrms

2.5 kVrms

3 kVrms

5 kVrms

Global PCIe Digital I/O Card Market, Segmentation by Input Response Time:

Contents

1 SUPPLY SUMMARY

- 1.1 PCIe Digital I/O Card Introduction
- 1.2 World PCIe Digital I/O Card Supply & Forecast
 - 1.2.1 World PCIe Digital I/O Card Production Value (2021 & 2025 & 2032)
 - 1.2.2 World PCIe Digital I/O Card Production (2021-2032)
 - 1.2.3 World PCIe Digital I/O Card Pricing Trends (2021-2032)
- 1.3 World PCIe Digital I/O Card Production by Region (Based on Production Site)
 - 1.3.1 World PCIe Digital I/O Card Production Value by Region (2021-2032)
 - 1.3.2 World PCIe Digital I/O Card Production by Region (2021-2032)
 - 1.3.3 World PCIe Digital I/O Card Average Price by Region (2021-2032)
 - 1.3.4 North America PCIe Digital I/O Card Production (2021-2032)
 - 1.3.5 Europe PCIe Digital I/O Card Production (2021-2032)
 - 1.3.6 China PCIe Digital I/O Card Production (2021-2032)
 - 1.3.7 Japan PCIe Digital I/O Card Production (2021-2032)
 - 1.3.8 South Korea PCIe Digital I/O Card Production (2021-2032)
 - 1.3.9 Southeast Asia PCIe Digital I/O Card Production (2021-2032)
 - 1.3.10 China Taiwan PCIe Digital I/O Card Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 PCIe Digital I/O Card Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 PCIe Digital I/O Card Major Market Trends

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World PCIe Digital I/O Card Production Value by Manufacturer (2021-2026)
- 3.2 World PCIe Digital I/O Card Production by Manufacturer (2021-2026)
- 3.3 World PCIe Digital I/O Card Average Price by Manufacturer (2021-2026)
- 3.4 PCIe Digital I/O Card Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global PCIe Digital I/O Card Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for PCIe Digital I/O Card in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for PCIe Digital I/O Card in 2025
- 3.6 PCIe Digital I/O Card Market: Overall Company Footprint Analysis
 - 3.6.1 PCIe Digital I/O Card Market: Region Footprint
 - 3.6.2 PCIe Digital I/O Card Market: Company Product Type Footprint
 - 3.6.3 PCIe Digital I/O Card 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: PCIe Digital I/O Card Production Value Comparison
 - 4.1.1 United States VS China: PCIe Digital I/O Card Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: PCIe Digital I/O Card Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: PCIe Digital I/O Card Production Comparison
 - 4.2.1 United States VS China: PCIe Digital I/O Card Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: PCIe Digital I/O Card Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: PCIe Digital I/O Card Consumption Comparison
 - 4.3.1 United States VS China: PCIe Digital I/O Card Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: PCIe Digital I/O Card Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based PCIe Digital I/O Card Manufacturers and Market Share,

2021-2026

4.4.1 United States Based PCIe Digital I/O Card Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers PCIe Digital I/O Card Production Value (2021-2026)

4.4.3 United States Based Manufacturers PCIe Digital I/O Card Production (2021-2026)

4.5 China Based PCIe Digital I/O Card Manufacturers and Market Share

4.5.1 China Based PCIe Digital I/O Card Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers PCIe Digital I/O Card Production Value (2021-2026)

4.5.3 China Based Manufacturers PCIe Digital I/O Card Production (2021-2026)

4.6 Rest of World Based PCIe Digital I/O Card Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based PCIe Digital I/O Card Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers PCIe Digital I/O Card Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers PCIe Digital I/O Card Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World PCIe Digital I/O Card Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 8 Channel

5.2.2 16 Channel

5.2.3 32 Channel

5.2.4 128 Channel

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World PCIe Digital I/O Card Production by Type (2021-2032)

5.3.2 World PCIe Digital I/O Card Production Value by Type (2021-2032)

5.3.3 World PCIe Digital I/O Card Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ISOLATION WITHSTAND VOLTAGE RATING

6.1 World PCIe Digital I/O Card Market Size Overview by Isolation Withstand Voltage Rating: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Isolation Withstand Voltage Rating

6.2.1 1.5 kVrms

6.2.2 2.5 kVrms

6.2.3 3 kVrms

6.2.4 5 kVrms

6.3 Market Segment by Isolation Withstand Voltage Rating

6.3.1 World PCIe Digital I/O Card Production by Isolation Withstand Voltage Rating (2021-2032)

6.3.2 World PCIe Digital I/O Card Production Value by Isolation Withstand Voltage Rating (2021-2032)

6.3.3 World PCIe Digital I/O Card Average Price by Isolation Withstand Voltage Rating (2021-2032)

7 MARKET ANALYSIS BY INPUT RESPONSE TIME

7.1 World PCIe Digital I/O Card Market Size Overview by Input Response Time: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Input Response Time

7.2.1

List Of Tables

LIST OF TABLES

Table 1. World PCIe Digital I/O Card Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World PCIe Digital I/O Card Production Value by Region (2021-2026) & (USD Million)

Table 3. World PCIe Digital I/O Card Production Value by Region (2027-2032) & (USD Million)

Table 4. World PCIe Digital I/O Card Production Value Market Share by Region (2021-2026)

Table 5. World PCIe Digital I/O Card Production Value Market Share by Region (2027-2032)

Table 6. World PCIe Digital I/O Card Production by Region (2021-2026) & (K Units)

Table 7. World PCIe Digital I/O Card Production by Region (2027-2032) & (K Units)

Table 8. World PCIe Digital I/O Card Production Market Share by Region (2021-2026)

Table 9. World PCIe Digital I/O Card Production Market Share by Region (2027-2032)

Table 10. World PCIe Digital I/O Card Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World PCIe Digital I/O Card Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. PCIe Digital I/O Card Major Market Trends

Table 13. World PCIe Digital I/O Card Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World PCIe Digital I/O Card Consumption by Region (2021-2026) & (K Units)

Table 15. World PCIe Digital I/O Card Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World PCIe Digital I/O Card Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key PCIe Digital I/O Card Producers in 2025

Table 18. World PCIe Digital I/O Card Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key PCIe Digital I/O Card Producers in 2025

Table 20. World PCIe Digital I/O Card Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global PCIe Digital I/O Card Company Evaluation Quadrant

Table 22. World PCIe Digital I/O Card Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and PCIe Digital I/O Card Production Site of Key Manufacturer

Table 24. PCIe Digital I/O Card Market: Company Product Type Footprint

Table 25. PCIe Digital I/O Card Market: Company Product Application Footprint

Table 26. PCIe Digital I/O Card Competitive Factors

Table 27. PCIe Digital I/O Card New Entrant and Capacity Expansion Plans

Table 28. PCIe Digital I/O Card Mergers & Acquisitions Activity

Table 29. United States VS China PCIe Digital I/O Card Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China PCIe Digital I/O Card Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China PCIe Digital I/O Card Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based PCIe Digital I/O Card Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers PCIe Digital I/O Card Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers PCIe Digital I/O Card Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers PCIe Digital I/O Card Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers PCIe Digital I/O Card Production Market Share (2021-2026)

Table 37. China Based PCIe Digital I/O Card Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers PCIe Digital I/O Card Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers PCIe Digital I/O Card Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers PCIe Digital I/O Card Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers PCIe Digital I/O Card Production Market Share (2021-2026)

Table 42. Rest of World Based PCIe Digital I/O Card Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers PCIe Digital I/O Card Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers PCIe Digital I/O Card Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers PCIe Digital I/O Card Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers PCIe Digital I/O Card Production Market Share (2021-2026)

Table 47. World PCIe Digital I/O Card Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World PCIe Digital I/O Card Production by Type (2021-2026) & (K Units)

Table 49. World PCIe Digital I/O Card Production by Type (2027-2032) & (K Units)

Table 50. World PCIe Digital I/O Card Production Value by Type (2021-2026) & (USD Million)

Table 51. World PCIe Digital I/O Card Production Value by Type (2027-2032) & (USD Million)

Table 52. World PCIe Digital I/O Card Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World PCIe Digital I/O Card Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World PCIe Digital I/O Card Production Value by Isolation Withstand Voltage Rating, (USD Million), 2021 & 2025 & 2032

Table 55. World PCIe Digital I/O Card Production by Isolation Withstand Voltage Rating (2021-2026) & (K Units)

Table 56. World PCIe Digital I/O Card Production by Isolation Withstand Voltage Rating (2027-2032) & (K Units)

Table 57. World PCIe Digital I/O Card Production Value by Isolation Withstand Voltage Rating (2021-2026) & (USD Million)

Table 58. World PCIe Digital I/O Card Production Value by Isolation Withstand Voltage Rating (2027-2032) & (USD Million)

Table 59. World PCIe Digital I/O Card Average Price by Isolation Withstand Voltage Rating (2021-2026) & (US\$/Unit)

Table 60. World PCIe Digital I/O Card Average Price by Isolation Withstand Voltage Rating (2027-2032) & (US\$/Unit)

Table 61. World PCIe Digital I/O Card Production Value by Input Response Time, (USD Million), 2021 & 2025 & 2032

Table 62. World PCIe Digital I/O Card Production by Input Response Time (2021-2026) & (K Units)

Table 63. World PCIe Digital I/O Card Production by Input Response Time (2027-2032) & (K Units)

Table 64. World PCIe Digital I/O Card Production Value by Input Response Time (2021-2026) & (USD Million)

Table 65. World PCIe Digital I/O Card Production Value by Input Response Time (2027-2032) & (USD Million)

Table 66. World PCIe Digital I/O Card Average Price by Input Response Time

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

Table 67. World PCIe Digital I/O Card Average Price by Input Response Time

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

Table 68. World PCIe Digital I/O Card Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World PCIe Digital I/O Card Production by Application (2021-2026) & (K Units)

Table 70. World PCIe Digital I/O Card Production by Application (2027-2032) & (K Units)

Table 71. World PCIe Digital I/O Card Production Value by Application (2021-2026) & (USD Million)

Table 72. World PCIe Digital I/O Card Production Value by Application (2027-2032) & (USD Million)

Table 73. World PCIe Digital I/O Card Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World PCIe Digital I/O Card Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Advantech (Public, Taipei, China Taiwan) Basic Information, Manufacturing Base and Competitors

Table 76. Advantech (Public, Taipei, China Taiwan) Major Business

Table 77. Advantech (Public, Taipei, China Taiwan) PCIe Digital I/O Card Product and Services

Table 78. Advantech (Public, Taipei, China Taiwan) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Advantech (Public, Taipei, China Taiwan) Recent Developments/Updates

Table 80. Advantech (Public, Taipei, China Taiwan) Competitive Strengths & Weaknesses

Table 81. ADLINK (Public, Taoyuan, China Taiwan) Basic Information, Manufacturing Base and Competitors

Table 82. ADLINK (Public, Taoyuan, China Taiwan) Major Business

Table 83. ADLINK (Public, Taoyuan, China Taiwan) PCIe Digital I/O Card Product and Services

Table 84. ADLINK (Public, Taoyuan, China Taiwan) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ADLINK (Public, Taoyuan, China Taiwan) Recent Developments/Updates

Table 86. ADLINK (Public, Taoyuan, China Taiwan) Competitive Strengths & Weaknesses

Table 87. Contec (Public, Osaka, Japan) Basic Information, Manufacturing Base and Competitors

Table 88. Contec (Public, Osaka, Japan) Major Business

Table 89. Contec (Public, Osaka, Japan) PCIe Digital I/O Card Product and Services

Table 90. Contec (Public, Osaka, Japan) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Contec (Public, Osaka, Japan) Recent Developments/Updates

Table 92. Contec (Public, Osaka, Japan) Competitive Strengths & Weaknesses

Table 93. Sealevel (Private, Liberty, USA) Basic Information, Manufacturing Base and Competitors

Table 94. Sealevel (Private, Liberty, USA) Major Business

Table 95. Sealevel (Private, Liberty, USA) PCIe Digital I/O Card Product and Services

Table 96. Sealevel (Private, Liberty, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Sealevel (Private, Liberty, USA) Recent Developments/Updates

Table 98. Sealevel (Private, Liberty, USA) Competitive Strengths & Weaknesses

Table 99. SUNIX (Private, Taipei, China Taiwan) Basic Information, Manufacturing Base and Competitors

Table 100. SUNIX (Private, Taipei, China Taiwan) Major Business

Table 101. SUNIX (Private, Taipei, China Taiwan) PCIe Digital I/O Card Product and Services

Table 102. SUNIX (Private, Taipei, China Taiwan) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. SUNIX (Private, Taipei, China Taiwan) Recent Developments/Updates

Table 104. SUNIX (Private, Taipei, China Taiwan) Competitive Strengths & Weaknesses

Table 105. ACCES I/O (Private, San Diego, USA) Basic Information, Manufacturing Base and Competitors

Table 106. ACCES I/O (Private, San Diego, USA) Major Business

Table 107. ACCES I/O (Private, San Diego, USA) PCIe Digital I/O Card Product and Services

Table 108. ACCES I/O (Private, San Diego, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. ACCES I/O (Private, San Diego, USA) Recent Developments/Updates

Table 110. ACCES I/O (Private, San Diego, USA) Competitive Strengths &

Weaknesses

Table 111. Texas Instruments (Public, Dallas, USA) Basic Information, Manufacturing Base and Competitors

Table 112. Texas Instruments (Public, Dallas, USA) Major Business

Table 113. Texas Instruments (Public, Dallas, USA) PCIe Digital I/O Card Product and Services

Table 114. Texas Instruments (Public, Dallas, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Texas Instruments (Public, Dallas, USA) Recent Developments/Updates

Table 116. Texas Instruments (Public, Dallas, USA) Competitive Strengths & Weaknesses

Table 117. Diamond Systems (Private, Sunnyvale, USA) Basic Information, Manufacturing Base and Competitors

Table 118. Diamond Systems (Private, Sunnyvale, USA) Major Business

Table 119. Diamond Systems (Private, Sunnyvale, USA) PCIe Digital I/O Card Product and Services

Table 120. Diamond Systems (Private, Sunnyvale, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Diamond Systems (Private, Sunnyvale, USA) Recent Developments/Updates

Table 122. Diamond Systems (Private, Sunnyvale, USA) Competitive Strengths & Weaknesses

Table 123. Speedgoat (Private, Bern, Switzerland) Basic Information, Manufacturing Base and Competitors

Table 124. Speedgoat (Private, Bern, Switzerland) Major Business

Table 125. Speedgoat (Private, Bern, Switzerland) PCIe Digital I/O Card Product and Services

Table 126. Speedgoat (Private, Bern, Switzerland) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Speedgoat (Private, Bern, Switzerland) Recent Developments/Updates

Table 128. Speedgoat (Private, Bern, Switzerland) Competitive Strengths & Weaknesses

Table 129. Axiomtek (Public, Taipei, China Taiwan) Basic Information, Manufacturing Base and Competitors

Table 130. Axiomtek (Public, Taipei, China Taiwan) Major Business

Table 131. Axiomtek (Public, Taipei, China Taiwan) PCIe Digital I/O Card Product and

Services

Table 132. Axiomtek (Public, Taipei, China Taiwan) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Axiomtek (Public, Taipei, China Taiwan) Recent Developments/Updates

Table 134. Axiomtek (Public, Taipei, China Taiwan) Competitive Strengths & Weaknesses

Table 135. National Instruments (Public, Austin, USA) Basic Information, Manufacturing Base and Competitors

Table 136. National Instruments (Public, Austin, USA) Major Business

Table 137. National Instruments (Public, Austin, USA) PCIe Digital I/O Card Product and Services

Table 138. National Instruments (Public, Austin, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. National Instruments (Public, Austin, USA) Recent Developments/Updates

Table 140. National Instruments (Public, Austin, USA) Competitive Strengths & Weaknesses

Table 141. ICP DAS (Public, Taipei, China Taiwan) Basic Information, Manufacturing Base and Competitors

Table 142. ICP DAS (Public, Taipei, China Taiwan) Major Business

Table 143. ICP DAS (Public, Taipei, China Taiwan) PCIe Digital I/O Card Product and Services

Table 144. ICP DAS (Public, Taipei, China Taiwan) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. ICP DAS (Public, Taipei, China Taiwan) Recent Developments/Updates

Table 146. ICP DAS (Public, Taipei, China Taiwan) Competitive Strengths & Weaknesses

Table 147. Acromag (Private, Wixom, USA) Basic Information, Manufacturing Base and Competitors

Table 148. Acromag (Private, Wixom, USA) Major Business

Table 149. Acromag (Private, Wixom, USA) PCIe Digital I/O Card Product and Services

Table 150. Acromag (Private, Wixom, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Acromag (Private, Wixom, USA) Recent Developments/Updates

Table 152. Acromag (Private, Wixom, USA) Competitive Strengths & Weaknesses

Table 153. Interworld Electronics (Private, Caulfield South, Australia) Basic Information,

Manufacturing Base and Competitors

Table 154. Interworld Electronics (Private, Caulfield South, Australia) Major Business

Table 155. Interworld Electronics (Private, Caulfield South, Australia) PCIe Digital I/O Card Product and Services

Table 156. Interworld Electronics (Private, Caulfield South, Australia) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Interworld Electronics (Private, Caulfield South, Australia) Recent Developments/Updates

Table 158. Interworld Electronics (Private, Caulfield South, Australia) Competitive Strengths & Weaknesses

Table 159. Pickering (Private, Essex, UK) Basic Information, Manufacturing Base and Competitors

Table 160. Pickering (Private, Essex, UK) Major Business

Table 161. Pickering (Private, Essex, UK) PCIe Digital I/O Card Product and Services

Table 162. Pickering (Private, Essex, UK) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Pickering (Private, Essex, UK) Recent Developments/Updates

Table 164. Pickering (Private, Essex, UK) Competitive Strengths & Weaknesses

Table 165. Abaco Systems (Private, Huntsville, USA) Basic Information, Manufacturing Base and Competitors

Table 166. Abaco Systems (Private, Huntsville, USA) Major Business

Table 167. Abaco Systems (Private, Huntsville, USA) PCIe Digital I/O Card Product and Services

Table 168. Abaco Systems (Private, Huntsville, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Abaco Systems (Private, Huntsville, USA) Recent Developments/Updates

Table 170. Abaco Systems (Private, Huntsville, USA) Competitive Strengths & Weaknesses

Table 171. Portwell (Private, Fremont, USA) Basic Information, Manufacturing Base and Competitors

Table 172. Portwell (Private, Fremont, USA) Major Business

Table 173. Portwell (Private, Fremont, USA) PCIe Digital I/O Card Product and Services

Table 174. Portwell (Private, Fremont, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Portwell (Private, Fremont, USA) Recent Developments/Updates

Table 176. Portwell (Private, Fremont, USA) Competitive Strengths & Weaknesses

Table 177. Taiwan Pulse Motion (Private, Taichung City, China Taiwan) Basic Information, Manufacturing Base and Competitors

Table 178. Taiwan Pulse Motion (Private, Taichung City, China Taiwan) Major Business

Table 179. Taiwan Pulse Motion (Private, Taichung City, China Taiwan) PCIe Digital I/O Card Product and Services

Table 180. Taiwan Pulse Motion (Private, Taichung City, China Taiwan) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Taiwan Pulse Motion (Private, Taichung City, China Taiwan) Recent Developments/Updates

Table 182. Taiwan Pulse Motion (Private, Taichung City, China Taiwan) Competitive Strengths & Weaknesses

Table 183. Measurement Systems (Private, Newbury, UK) Basic Information, Manufacturing Base and Competitors

Table 184. Measurement Systems (Private, Newbury, UK) Major Business

Table 185. Measurement Systems (Private, Newbury, UK) PCIe Digital I/O Card Product and Services

Table 186. Measurement Systems (Private, Newbury, UK) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Measurement Systems (Private, Newbury, UK) Recent Developments/Updates

Table 188. Measurement Systems (Private, Newbury, UK) Competitive Strengths & Weaknesses

Table 189. Control Technology (Private, Knoxville, USA) Basic Information, Manufacturing Base and Competitors

Table 190. Control Technology (Private, Knoxville, USA) Major Business

Table 191. Control Technology (Private, Knoxville, USA) PCIe Digital I/O Card Product and Services

Table 192. Control Technology (Private, Knoxville, USA) PCIe Digital I/O Card Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Control Technology (Private, Knoxville, USA) Recent Developments/Updates

Table 194. Control Technology (Private, Knoxville, USA) Competitive Strengths & Weaknesses

Table 195. Global Key Players of PCIe Digital I/O Card Upstream (Raw Materials)

Table 196. Global PCIe Digital I/O Card Typical Customers

Table 197. PCIe Digital I/O Card Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. PCIe Digital I/O Card Picture

Figure 2. World PCIe Digital I/O Card Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World PCIe Digital I/O Card Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World PCIe Digital I/O Card Production (2021-2032) & (K Units)

Figure 5. World PCIe Digital I/O Card Average Price (2021-2032) & (US\$/Unit)

Figure 6. World PCIe Digital I/O Card Production Value Market Share by Region (2021-2032)

Figure 7. World PCIe Digital I/O Card Production Market Share by Region (2021-2032)

Figure 8. North America PCIe Digital I/O Card Production (2021-2032) & (K Units)

Figure 9. Europe PCIe Digital I/O Card Production (2021-2032) & (K Units)

Figure 10. China PCIe Digital I/O Card Production (2021-2032) & (K Units)

Figure 11. Japan PCIe Digital I/O Card Production (2021-2032) & (K Units)

Figure 12. South Korea PCIe Digital I/O Card Production (2021-2032) & (K Units)

Figure 13. Southeast Asia PCIe Digital I/O Card Production (2021-2032) & (K Units)

Figure 14. China Taiwan PCIe Digital I/O Card Production (2021-2032) & (K Units)

Figure 15. PCIe Digital I/O Card Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World PCIe Digital I/O Card Consumption (2021-2032) & (K Units)

Figure 18. World PCIe Digital I/O Card Consumption Market Share by Region (2021-2032)

Figure 19. United States PCIe Digital I/O Card Consumption (2021-2032) & (K Units)

Figure 20. China PCIe Digital I/O Card Consumption (2021-2032) & (K Units)

Figure 21. Europe PCIe Digital I/O Card Consumption (2021-2032) & (K Units)

Figure 22. Japan PCIe Digital I/O Card Consumption (2021-2032) & (K Units)

Figure 23. South Korea PCIe Digital I/O Card Consumption (2021-2032) & (K Units)

Figure 24. ASEAN PCIe Digital I/O Card Consumption (2021-2032) & (K Units)

Figure 25. India PCIe Digital I/O Card Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of PCIe Digital I/O Card by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for PCIe Digital I/O Card Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for PCIe Digital I/O Card Markets in 2025

Figure 29. United States VS China: PCIe Digital I/O Card Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: PCIe Digital I/O Card Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: PCIe Digital I/O Card Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers PCIe Digital I/O Card Production Market Share 2025

Figure 33. China Based Manufacturers PCIe Digital I/O Card Production Market Share 2025

Figure 34. Rest of World Based Manufacturers PCIe Digital I/O Card Production Market Share 2025

Figure 35. World PCIe Digital I/O Card Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World PCIe Digital I/O Card Production Value Market Share by Type in 2025

Figure 37. 8 Channel

Figure 38. 16 Channel

Figure 39. 32 Channel

Figure 40. 128 Channel

Figure 41. Others

Figure 42. World PCIe Digital I/O Card Production Market Share by Type (2021-2032)

Figure 43. World PCIe Digital I/O Card Production Value Market Share by Type (2021-2032)

Figure 44. World PCIe Digital I/O Card Average Price by Type (2021-2032) & (US\$/Unit)

Figure 45. World PCIe Digital I/O Card Production Value by Isolation Withstand Voltage Rating, (USD Million), 2021 & 2025 & 2032

Figure 46. World PCIe Digital I/O Card Production Value Market Share by Isolation Withstand Voltage Rating in 2025

Figure 47. 1.5 kVrms

Figure 48. 2.5 kVrms

Figure 49. 3 kVrms

Figure 50. 5 kVrms

Figure 51. World PCIe Digital I/O Card Production Market Share by Isolation Withstand Voltage Rating (2021-2032)

Figure 52. World PCIe Digital I/O Card Production Value Market Share by Isolation Withstand Voltage Rating (2021-2032)

Figure 53. World PCIe Digital I/O Card Average Price by Isolation Withstand Voltage Rating (2021-2032) & (US\$/Unit)

Figure 54. World PCIe Digital I/O Card Production Value by Input Response Time, (USD Million), 2021 & 2025 & 2032

Figure 55. World PCIe Digital I/O Card Production Value Market Share by Input Response Time in 2025

Figure 56.

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