

Global PCI Digital I/O Card Market Growth 2026-2032

<https://marketpublishers.com/r/G8A3B04CB02EEN.html>

Date: May 2026

Pages: 139

Price: US\$ 3,660.00 (Single User License)

ID: G8A3B04CB02EEN

Abstracts

The global PCI Digital I/O Card market size is predicted to grow from US\$ 234 million in 2025 to US\$ 361 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

Global shipments of PCI 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 PCI 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. PCI 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.

United States market for PCI Digital I/O Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for PCI Digital I/O Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for PCI Digital I/O Card is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key PCI Digital I/O Card players cover Advantech (Public, Taipei, China Taiwan), ADLINK (Public, Taoyuan, China Taiwan), Contec (Public, Osaka, Japan), Sealevel (Private, Liberty, USA), SUNIX (Private, Taipei, China Taiwan), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global PCI Digital I/O Card 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 PCI Digital I/O Card portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PCI Digital I/O Card market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PCI Digital I/O Card 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 PCI Digital I/O Card.

This report presents a comprehensive overview, market shares, and growth opportunities of PCI Digital I/O Card market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

8 Channel

16 Channel

32 Channel

128 Channel

Others

Segmentation by Isolation Withstand Voltage Rating:

1.5 kVrms

2.5 kVrms

3 kVrms

5 kVrms

Segmentation by Input Response Time:

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global PCI Digital I/O Card Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for PCI Digital I/O Card by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for PCI Digital I/O Card by Country/Region, 2021, 2025 & 2032

2.2 PCI Digital I/O Card Segment by Type

- 2.2.1 8 Channel
- 2.2.2 16 Channel
- 2.2.3 32 Channel
- 2.2.4 128 Channel
- 2.2.5 Others
- 2.2.6 PCI Digital I/O Card Sales by Type
 - 2.2.6.1 Global PCI Digital I/O Card Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global PCI Digital I/O Card Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global PCI Digital I/O Card Sale Price by Type (2021-2026)

2.3 PCI Digital I/O Card Segment by Isolation Withstand Voltage Rating

- 2.3.1 1.5 kVrms
- 2.3.2 2.5 kVrms
- 2.3.3 3 kVrms
- 2.3.4 5 kVrms
- 2.3.5 PCI Digital I/O Card Sales by Isolation Withstand Voltage Rating
 - 2.3.5.1 Global PCI Digital I/O Card Sales Market Share by Isolation Withstand Voltage Rating (2021-2026)

2.3.5.2 Global PCI Digital I/O Card Revenue and Market Share by Isolation Withstand Voltage Rating (2021-2026)

2.3.5.3 Global PCI Digital I/O Card Sale Price by Isolation Withstand Voltage Rating (2021-2026)

2.4 PCI Digital I/O Card Segment by Input Response Time

2.4.1

List Of Tables

LIST OF TABLES

Table 1. PCI Digital I/O Card Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. PCI Digital I/O Card Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 8 Channel

Table 4. Major Players of 16 Channel

Table 5. Major Players of 32 Channel

Table 6. Major Players of 128 Channel

Table 7. Major Players of Others

Table 8. Global PCI Digital I/O Card Sales by Type (2021-2026) & (K Units)

Table 9. Global PCI Digital I/O Card Sales Market Share by Type (2021-2026)

Table 10. Global PCI Digital I/O Card Revenue by Type (2021-2026) & (\$ million)

Table 11. Global PCI Digital I/O Card Revenue Market Share by Type (2021-2026)

Table 12. Global PCI Digital I/O Card Sale Price by Type (2021-2026) & (US\$/Unit)

Table 13. Major Players of 1.5 kVrms

Table 14. Major Players of 2.5 kVrms

Table 15. Major Players of 3 kVrms

Table 16. Major Players of 5 kVrms

Table 17. Global PCI Digital I/O Card Sales by Isolation Withstand Voltage Rating (2021-2026) & (K Units)

Table 18. Global PCI Digital I/O Card Sales Market Share by Isolation Withstand Voltage Rating (2021-2026)

Table 19. Global PCI Digital I/O Card Revenue by Isolation Withstand Voltage Rating (2021-2026) & (\$ million)

Table 20. Global PCI Digital I/O Card Revenue Market Share by Isolation Withstand Voltage Rating (2021-2026)

Table 21. Global PCI Digital I/O Card Sale Price by Isolation Withstand Voltage Rating (2021-2026) & (US\$/Unit)

Table 22. Major Players of

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of PCI Digital I/O Card
- Figure 2. PCI Digital I/O Card Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global PCI Digital I/O Card Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global PCI Digital I/O Card Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. PCI Digital I/O Card Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. PCI Digital I/O Card Sales Market Share by Country/Region (2025)
- Figure 10. PCI Digital I/O Card Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 8 Channel
- Figure 12. Product Picture of 16 Channel
- Figure 13. Product Picture of 32 Channel
- Figure 14. Product Picture of 128 Channel
- Figure 15. Product Picture of Others
- Figure 16. Global PCI Digital I/O Card Sales Market Share by Type in 2026
- Figure 17. Global PCI Digital I/O Card Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of 1.5 kVrms
- Figure 19. Product Picture of 2.5 kVrms
- Figure 20. Product Picture of 3 kVrms
- Figure 21. Product Picture of 5 kVrms
- Figure 22. Global PCI Digital I/O Card Sales Market Share by Isolation Withstand Voltage Rating in 2026
- Figure 23. Global PCI Digital I/O Card Revenue Market Share by Isolation Withstand Voltage Rating (2021-2026)
- Figure 24. Product Picture of

I would like to order

Product name: Global PCI Digital I/O Card Market Growth 2026-2032

Product link: <https://marketpublishers.com/r/G8A3B04CB02EEN.html>

Price: US\$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G8A3B04CB02EEN.html>