

# Global IO Relay Module Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global IO Relay Module market size is expected to reach \$ 599 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032). I/O relay modules are signal acquisition and load isolation control units used in industrial automation and equipment control systems. They achieve reliable control of motors, solenoid valves, indicator lights, and safety circuits by electrically isolating the input/output signals of PLCs or controllers from field actuators. Based on comprehensive industrial automation installation volume and unit configuration calculations, global I/O relay module sales are estimated at approximately 18.2 million units in 2025, with an average unit price of approximately US\$19.8 per unit and an industry capacity utilization rate of approximately 78.4%. Upstream companies mainly come from relay bodies, power devices, optocouplers and isolation chips, PCBs and connectors, housings and terminal materials, while downstream companies are concentrated in PLC and DCS system integration, industrial control cabinet manufacturing, equipment OEMs, and manufacturing end-users. The industry's gross profit margin is approximately 27% to 42%. In the product cost structure, relays and isolation devices account for approximately 38%, electronic components and PCBs for approximately 22%, structural components and terminals for approximately 15%, assembly and testing for approximately 10%, R&D and quality management for approximately 8%, and logistics and after-sales service for approximately 7%. Based on parameters, I/O relay modules can be categorized into bus-type, Ethernet remote I/O relay modules, and local direct-connect modules. Based on relay type, they can be categorized into electromagnetic relays, solid-state relays, and hybrid relays. Based on channel and load capacity, they can be categorized into low-current control types, medium-power general-purpose types, and high-current industrial types. On the demand side, downstream demand includes smart manufacturing production lines, process industry control, packaging and logistics equipment, power and energy

systems, and building automation and infrastructure. Downstream customer lists include industrial automation system integrators, equipment manufacturers, industrial terminal factories, and OEM control cabinet manufacturers. In terms of business opportunities, policy drivers are reflected in the promotion of smart manufacturing and new industrialization, as well as the continuous strengthening of safety production standards. Technological innovation drivers focus on high-density modular design, improved Ethernet real-time communication capabilities, and higher isolation levels. Changing consumer demands are reflected in users' increasing focus on system stability, ease of maintenance, and controllable lifecycle costs, driving the continuous upgrading of I/O relay modules towards high reliability, remote operation, and networking.

The market for I/O relay modules is maintaining stable growth with the improvement of industrial automation and equipment digitization, and its role is evolving from traditional signal isolation devices to networked and systematic control units. With the increasing flexibility of production lines, distributed deployment of equipment, and remote operation and maintenance requirements, the penetration rate of bus type and Ethernet remote IO relay modules continues to increase, promoting the upgrade of products from low value-added standard components to high integration and high reliability solutions. The focus of supply side competition has shifted from pure price to module density, communication stability, and long-term operational reliability. Manufacturers who can provide stable isolation and rapid maintenance capabilities in harsh industrial environments have more advantages. In the medium to long term, the continuous promotion of intelligent manufacturing and safety production by policies, the popularization of industrial Ethernet and edge control architecture, and the increasing attention of end users to system stability and operation efficiency will enable the IO relay module market to maintain steady growth and develop towards remote, standardized, and platform based directions.

This report studies the global IO Relay Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IO Relay Module 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 IO Relay Module that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global IO Relay Module total production and demand, 2021-2032, (K Units)

Global IO Relay Module total production value, 2021-2032, (USD Million)

Global IO Relay Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global IO Relay Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: IO Relay Module domestic production, consumption, key domestic manufacturers and share

Global IO Relay Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global IO Relay Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global IO Relay Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global IO Relay Module 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 Celduc Inc., Siemens, Schneider Electric, Axis Communications, Allen-Bradley, Finder Relays, Inc., Grayhill Inc., Sontay, Omron Automation and Safety, Panasonic Electric, 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 IO Relay Module 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 IO Relay Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IO Relay Module Market, Segmentation by Type:

AC Module

DC Module

Global IO Relay Module Market, Segmentation by Input/Output Types:

Digital I/O Relay Module

Analog I/O Relay Module

Global IO Relay Module Market, Segmentation by Interface Method:

Bus-Type IO Relay Module

Ethernet Remote IO Relay Module

Others

Global IO Relay Module Market, Segmentation by Application:

Consumer Electronics

Food and Pharmaceutical

Plastic Injection Molding

Textile Industry

Scientific Research

Others

**Companies Profiled:**

Celduc Inc.

Siemens

Schneider Electric

Axis Communications

Allen-Bradley

Finder Relays, Inc.

Grayhill Inc.

Sontay

Omron Automation and Safety

Panasonic Electric

Phoenix Contact

KEB Automation

Sensata Technology

TE Connectivity

Weidmuller

Denkovi AE LTD

Gmi

Yeu Lian

**Key Questions Answered:**

1. How big is the global IO Relay Module market?
2. What is the demand of the global IO Relay Module market?
3. What is the year over year growth of the global IO Relay Module market?
4. What is the production and production value of the global IO Relay Module market?
5. Who are the key producers in the global IO Relay Module market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

## Production Site (States, Country)

4.4.2 United States Based Manufacturers IO Relay Module Production Value (2021-2026)

4.4.3 United States Based Manufacturers IO Relay Module Production (2021-2026)

## 4.5 China Based IO Relay Module Manufacturers and Market Share

4.5.1 China Based IO Relay Module Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers IO Relay Module Production Value (2021-2026)

4.5.3 China Based Manufacturers IO Relay Module Production (2021-2026)

## 4.6 Rest of World Based IO Relay Module Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based IO Relay Module Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers IO Relay Module Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers IO Relay Module Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World IO Relay Module Market Size Overview by Type: 2021 VS 2025 VS 2032

### 5.2 Segment Introduction by Type

5.2.1 AC Module

5.2.2 DC Module

### 5.3 Market Segment by Type

5.3.1 World IO Relay Module Production by Type (2021-2032)

5.3.2 World IO Relay Module Production Value by Type (2021-2032)

5.3.3 World IO Relay Module Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY INPUT/OUTPUT TYPES

6.1 World IO Relay Module Market Size Overview by Input/Output Types: 2021 VS 2025 VS 2032

### 6.2 Segment Introduction by Input/Output Types

6.2.1 Digital I/O Relay Module

6.2.2 Analog I/O Relay Module

### 6.3 Market Segment by Input/Output Types

6.3.1 World IO Relay Module Production by Input/Output Types (2021-2032)

6.3.2 World IO Relay Module Production Value by Input/Output Types (2021-2032)

6.3.3 World IO Relay Module Average Price by Input/Output Types (2021-2032)

## **7 MARKET ANALYSIS BY INTERFACE METHOD**

7.1 World IO Relay Module Market Size Overview by Interface Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Interface Method

7.2.1 Bus-Type IO Relay Module

7.2.2 Ethernet Remote IO Relay Module

7.2.3 Others

7.3 Market Segment by Interface Method

7.3.1 World IO Relay Module Production by Interface Method (2021-2032)

7.3.2 World IO Relay Module Production Value by Interface Method (2021-2032)

7.3.3 World IO Relay Module Average Price by Interface Method (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World IO Relay Module Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumer Electronics

8.2.2 Food and Pharmaceutical

8.2.3 Plastic Injection Molding

8.2.4 Textile Industry

8.2.5 Scientific Research

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World IO Relay Module Production by Application (2021-2032)

8.3.2 World IO Relay Module Production Value by Application (2021-2032)

8.3.3 World IO Relay Module Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Celduc Inc.

9.1.1 Celduc Inc. Details

9.1.2 Celduc Inc. Major Business

9.1.3 Celduc Inc. IO Relay Module Product and Services

9.1.4 Celduc Inc. IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Celduc Inc. Recent Developments/Updates

9.1.6 Celduc Inc. Competitive Strengths & Weaknesses

## 9.2 Siemens

### 9.2.1 Siemens Details

### 9.2.2 Siemens Major Business

### 9.2.3 Siemens IO Relay Module Product and Services

### 9.2.4 Siemens IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.2.5 Siemens Recent Developments/Updates

### 9.2.6 Siemens Competitive Strengths & Weaknesses

## 9.3 Schneider Electric

### 9.3.1 Schneider Electric Details

### 9.3.2 Schneider Electric Major Business

### 9.3.3 Schneider Electric IO Relay Module Product and Services

### 9.3.4 Schneider Electric IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.3.5 Schneider Electric Recent Developments/Updates

### 9.3.6 Schneider Electric Competitive Strengths & Weaknesses

## 9.4 Axis Communications

### 9.4.1 Axis Communications Details

### 9.4.2 Axis Communications Major Business

### 9.4.3 Axis Communications IO Relay Module Product and Services

### 9.4.4 Axis Communications IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.4.5 Axis Communications Recent Developments/Updates

### 9.4.6 Axis Communications Competitive Strengths & Weaknesses

## 9.5 Allen-Bradley

### 9.5.1 Allen-Bradley Details

### 9.5.2 Allen-Bradley Major Business

### 9.5.3 Allen-Bradley IO Relay Module Product and Services

### 9.5.4 Allen-Bradley IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.5.5 Allen-Bradley Recent Developments/Updates

### 9.5.6 Allen-Bradley Competitive Strengths & Weaknesses

## 9.6 Finder Relays, Inc.

### 9.6.1 Finder Relays, Inc. Details

### 9.6.2 Finder Relays, Inc. Major Business

### 9.6.3 Finder Relays, Inc. IO Relay Module Product and Services

### 9.6.4 Finder Relays, Inc. IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.6.5 Finder Relays, Inc. Recent Developments/Updates

- 9.6.6 Finder Relays, Inc. Competitive Strengths & Weaknesses
- 9.7 Grayhill Inc.
  - 9.7.1 Grayhill Inc. Details
  - 9.7.2 Grayhill Inc. Major Business
  - 9.7.3 Grayhill Inc. IO Relay Module Product and Services
  - 9.7.4 Grayhill Inc. IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Grayhill Inc. Recent Developments/Updates
  - 9.7.6 Grayhill Inc. Competitive Strengths & Weaknesses
- 9.8 Sontay
  - 9.8.1 Sontay Details
  - 9.8.2 Sontay Major Business
  - 9.8.3 Sontay IO Relay Module Product and Services
  - 9.8.4 Sontay IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Sontay Recent Developments/Updates
  - 9.8.6 Sontay Competitive Strengths & Weaknesses
- 9.9 Omron Automation and Safety
  - 9.9.1 Omron Automation and Safety Details
  - 9.9.2 Omron Automation and Safety Major Business
  - 9.9.3 Omron Automation and Safety IO Relay Module Product and Services
  - 9.9.4 Omron Automation and Safety IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Omron Automation and Safety Recent Developments/Updates
  - 9.9.6 Omron Automation and Safety Competitive Strengths & Weaknesses
- 9.10 Panasonic Electric
  - 9.10.1 Panasonic Electric Details
  - 9.10.2 Panasonic Electric Major Business
  - 9.10.3 Panasonic Electric IO Relay Module Product and Services
  - 9.10.4 Panasonic Electric IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Panasonic Electric Recent Developments/Updates
  - 9.10.6 Panasonic Electric Competitive Strengths & Weaknesses
- 9.11 Phoenix Contact
  - 9.11.1 Phoenix Contact Details
  - 9.11.2 Phoenix Contact Major Business
  - 9.11.3 Phoenix Contact IO Relay Module Product and Services
  - 9.11.4 Phoenix Contact IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.11.5 Phoenix Contact Recent Developments/Updates
- 9.11.6 Phoenix Contact Competitive Strengths & Weaknesses
- 9.12 KEB Automation
  - 9.12.1 KEB Automation Details
  - 9.12.2 KEB Automation Major Business
  - 9.12.3 KEB Automation IO Relay Module Product and Services
  - 9.12.4 KEB Automation IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 KEB Automation Recent Developments/Updates
  - 9.12.6 KEB Automation Competitive Strengths & Weaknesses
- 9.13 Sensata Technology
  - 9.13.1 Sensata Technology Details
  - 9.13.2 Sensata Technology Major Business
  - 9.13.3 Sensata Technology IO Relay Module Product and Services
  - 9.13.4 Sensata Technology IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Sensata Technology Recent Developments/Updates
  - 9.13.6 Sensata Technology Competitive Strengths & Weaknesses
- 9.14 TE Connectivity
  - 9.14.1 TE Connectivity Details
  - 9.14.2 TE Connectivity Major Business
  - 9.14.3 TE Connectivity IO Relay Module Product and Services
  - 9.14.4 TE Connectivity IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 TE Connectivity Recent Developments/Updates
  - 9.14.6 TE Connectivity Competitive Strengths & Weaknesses
- 9.15 Weidmuller
  - 9.15.1 Weidmuller Details
  - 9.15.2 Weidmuller Major Business
  - 9.15.3 Weidmuller IO Relay Module Product and Services
  - 9.15.4 Weidmuller IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 Weidmuller Recent Developments/Updates
  - 9.15.6 Weidmuller Competitive Strengths & Weaknesses
- 9.16 Denkovi AE LTD
  - 9.16.1 Denkovi AE LTD Details
  - 9.16.2 Denkovi AE LTD Major Business
  - 9.16.3 Denkovi AE LTD IO Relay Module Product and Services
  - 9.16.4 Denkovi AE LTD IO Relay Module Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

9.16.5 Denkovi AE LTD Recent Developments/Updates

9.16.6 Denkovi AE LTD Competitive Strengths & Weaknesses

## 9.17 Gmi

9.17.1 Gmi Details

9.17.2 Gmi Major Business

9.17.3 Gmi IO Relay Module Product and Services

9.17.4 Gmi IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Gmi Recent Developments/Updates

9.17.6 Gmi Competitive Strengths & Weaknesses

## 9.18 Yeu Lian

9.18.1 Yeu Lian Details

9.18.2 Yeu Lian Major Business

9.18.3 Yeu Lian IO Relay Module Product and Services

9.18.4 Yeu Lian IO Relay Module Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Yeu Lian Recent Developments/Updates

9.18.6 Yeu Lian Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 IO Relay Module Industry Chain

10.2 IO Relay Module Upstream Analysis

10.2.1 IO Relay Module Core Raw Materials

10.2.2 Main Manufacturers of IO Relay Module Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 IO Relay Module Production Mode

10.6 IO Relay Module Procurement Model

10.7 IO Relay Module Industry Sales Model and Sales Channels

10.7.1 IO Relay Module Sales Model

10.7.2 IO Relay Module Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World IO Relay Module Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World IO Relay Module Production Value by Region (2021-2026) & (USD Million)
- Table 3. World IO Relay Module Production Value by Region (2027-2032) & (USD Million)
- Table 4. World IO Relay Module Production Value Market Share by Region (2021-2026)
- Table 5. World IO Relay Module Production Value Market Share by Region (2027-2032)
- Table 6. World IO Relay Module Production by Region (2021-2026) & (K Units)
- Table 7. World IO Relay Module Production by Region (2027-2032) & (K Units)
- Table 8. World IO Relay Module Production Market Share by Region (2021-2026)
- Table 9. World IO Relay Module Production Market Share by Region (2027-2032)
- Table 10. World IO Relay Module Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World IO Relay Module Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. IO Relay Module Major Market Trends
- Table 13. World IO Relay Module Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World IO Relay Module Consumption by Region (2021-2026) & (K Units)
- Table 15. World IO Relay Module Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World IO Relay Module Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key IO Relay Module Producers in 2025
- Table 18. World IO Relay Module Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key IO Relay Module Producers in 2025
- Table 20. World IO Relay Module Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global IO Relay Module Company Evaluation Quadrant
- Table 22. World IO Relay Module Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and IO Relay Module Production Site of Key Manufacturer
- Table 24. IO Relay Module Market: Company Product Type Footprint
- Table 25. IO Relay Module Market: Company Product Application Footprint
- Table 26. IO Relay Module Competitive Factors
- Table 27. IO Relay Module New Entrant and Capacity Expansion Plans

Table 28. IO Relay Module Mergers & Acquisitions Activity

Table 29. United States VS China IO Relay Module Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China IO Relay Module Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China IO Relay Module Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based IO Relay Module Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers IO Relay Module Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers IO Relay Module Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers IO Relay Module Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers IO Relay Module Production Market Share (2021-2026)

Table 37. China Based IO Relay Module Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers IO Relay Module Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers IO Relay Module Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers IO Relay Module Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers IO Relay Module Production Market Share (2021-2026)

Table 42. Rest of World Based IO Relay Module Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers IO Relay Module Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers IO Relay Module Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers IO Relay Module Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers IO Relay Module Production Market Share (2021-2026)

Table 47. World IO Relay Module Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World IO Relay Module Production by Type (2021-2026) & (K Units)

Table 49. World IO Relay Module Production by Type (2027-2032) & (K Units)

Table 50. World IO Relay Module Production Value by Type (2021-2026) & (USD Million)

Table 51. World IO Relay Module Production Value by Type (2027-2032) & (USD Million)

Table 52. World IO Relay Module Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World IO Relay Module Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World IO Relay Module Production Value by Input/Output Types, (USD Million), 2021 & 2025 & 2032

Table 55. World IO Relay Module Production by Input/Output Types (2021-2026) & (K Units)

Table 56. World IO Relay Module Production by Input/Output Types (2027-2032) & (K Units)

Table 57. World IO Relay Module Production Value by Input/Output Types (2021-2026) & (USD Million)

Table 58. World IO Relay Module Production Value by Input/Output Types (2027-2032) & (USD Million)

Table 59. World IO Relay Module Average Price by Input/Output Types (2021-2026) & (US\$/Unit)

Table 60. World IO Relay Module Average Price by Input/Output Types (2027-2032) & (US\$/Unit)

Table 61. World IO Relay Module Production Value by Interface Method, (USD Million), 2021 & 2025 & 2032

Table 62. World IO Relay Module Production by Interface Method (2021-2026) & (K Units)

Table 63. World IO Relay Module Production by Interface Method (2027-2032) & (K Units)

Table 64. World IO Relay Module Production Value by Interface Method (2021-2026) & (USD Million)

Table 65. World IO Relay Module Production Value by Interface Method (2027-2032) & (USD Million)

Table 66. World IO Relay Module Average Price by Interface Method (2021-2026) & (US\$/Unit)

Table 67. World IO Relay Module Average Price by Interface Method (2027-2032) & (US\$/Unit)

Table 68. World IO Relay Module Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World IO Relay Module Production by Application (2021-2026) & (K Units)

Table 70. World IO Relay Module Production by Application (2027-2032) & (K Units)

Table 71. World IO Relay Module Production Value by Application (2021-2026) & (USD Million)

Table 72. World IO Relay Module Production Value by Application (2027-2032) & (USD Million)

Table 73. World IO Relay Module Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World IO Relay Module Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Celduc Inc. Basic Information, Manufacturing Base and Competitors

Table 76. Celduc Inc. Major Business

Table 77. Celduc Inc. IO Relay Module Product and Services

Table 78. Celduc Inc. IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Celduc Inc. Recent Developments/Updates

Table 80. Celduc Inc. Competitive Strengths & Weaknesses

Table 81. Siemens Basic Information, Manufacturing Base and Competitors

Table 82. Siemens Major Business

Table 83. Siemens IO Relay Module Product and Services

Table 84. Siemens IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Siemens Recent Developments/Updates

Table 86. Siemens Competitive Strengths & Weaknesses

Table 87. Schneider Electric Basic Information, Manufacturing Base and Competitors

Table 88. Schneider Electric Major Business

Table 89. Schneider Electric IO Relay Module Product and Services

Table 90. Schneider Electric IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Schneider Electric Recent Developments/Updates

Table 92. Schneider Electric Competitive Strengths & Weaknesses

Table 93. Axis Communications Basic Information, Manufacturing Base and Competitors

Table 94. Axis Communications Major Business

Table 95. Axis Communications IO Relay Module Product and Services

Table 96. Axis Communications IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Axis Communications Recent Developments/Updates

Table 98. Axis Communications Competitive Strengths & Weaknesses

- Table 99. Allen-Bradley Basic Information, Manufacturing Base and Competitors
- Table 100. Allen-Bradley Major Business
- Table 101. Allen-Bradley IO Relay Module Product and Services
- Table 102. Allen-Bradley IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Allen-Bradley Recent Developments/Updates
- Table 104. Allen-Bradley Competitive Strengths & Weaknesses
- Table 105. Finder Relays, Inc. Basic Information, Manufacturing Base and Competitors
- Table 106. Finder Relays, Inc. Major Business
- Table 107. Finder Relays, Inc. IO Relay Module Product and Services
- Table 108. Finder Relays, Inc. IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Finder Relays, Inc. Recent Developments/Updates
- Table 110. Finder Relays, Inc. Competitive Strengths & Weaknesses
- Table 111. Grayhill Inc. Basic Information, Manufacturing Base and Competitors
- Table 112. Grayhill Inc. Major Business
- Table 113. Grayhill Inc. IO Relay Module Product and Services
- Table 114. Grayhill Inc. IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Grayhill Inc. Recent Developments/Updates
- Table 116. Grayhill Inc. Competitive Strengths & Weaknesses
- Table 117. Sontay Basic Information, Manufacturing Base and Competitors
- Table 118. Sontay Major Business
- Table 119. Sontay IO Relay Module Product and Services
- Table 120. Sontay IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Sontay Recent Developments/Updates
- Table 122. Sontay Competitive Strengths & Weaknesses
- Table 123. Omron Automation and Safety Basic Information, Manufacturing Base and Competitors
- Table 124. Omron Automation and Safety Major Business
- Table 125. Omron Automation and Safety IO Relay Module Product and Services
- Table 126. Omron Automation and Safety IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Omron Automation and Safety Recent Developments/Updates
- Table 128. Omron Automation and Safety Competitive Strengths & Weaknesses
- Table 129. Panasonic Electric Basic Information, Manufacturing Base and Competitors
- Table 130. Panasonic Electric Major Business

- Table 131. Panasonic Electric IO Relay Module Product and Services
- Table 132. Panasonic Electric IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Panasonic Electric Recent Developments/Updates
- Table 134. Panasonic Electric Competitive Strengths & Weaknesses
- Table 135. Phoenix Contact Basic Information, Manufacturing Base and Competitors
- Table 136. Phoenix Contact Major Business
- Table 137. Phoenix Contact IO Relay Module Product and Services
- Table 138. Phoenix Contact IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Phoenix Contact Recent Developments/Updates
- Table 140. Phoenix Contact Competitive Strengths & Weaknesses
- Table 141. KEB Automation Basic Information, Manufacturing Base and Competitors
- Table 142. KEB Automation Major Business
- Table 143. KEB Automation IO Relay Module Product and Services
- Table 144. KEB Automation IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. KEB Automation Recent Developments/Updates
- Table 146. KEB Automation Competitive Strengths & Weaknesses
- Table 147. Sensata Technology Basic Information, Manufacturing Base and Competitors
- Table 148. Sensata Technology Major Business
- Table 149. Sensata Technology IO Relay Module Product and Services
- Table 150. Sensata Technology IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Sensata Technology Recent Developments/Updates
- Table 152. Sensata Technology Competitive Strengths & Weaknesses
- Table 153. TE Connectivity Basic Information, Manufacturing Base and Competitors
- Table 154. TE Connectivity Major Business
- Table 155. TE Connectivity IO Relay Module Product and Services
- Table 156. TE Connectivity IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. TE Connectivity Recent Developments/Updates
- Table 158. TE Connectivity Competitive Strengths & Weaknesses
- Table 159. Weidmuller Basic Information, Manufacturing Base and Competitors
- Table 160. Weidmuller Major Business
- Table 161. Weidmuller IO Relay Module Product and Services
- Table 162. Weidmuller IO Relay Module Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Weidmuller Recent Developments/Updates

Table 164. Weidmuller Competitive Strengths & Weaknesses

Table 165. Denkovi AE LTD Basic Information, Manufacturing Base and Competitors

Table 166. Denkovi AE LTD Major Business

Table 167. Denkovi AE LTD IO Relay Module Product and Services

Table 168. Denkovi AE LTD IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Denkovi AE LTD Recent Developments/Updates

Table 170. Denkovi AE LTD Competitive Strengths & Weaknesses

Table 171. Gmi Basic Information, Manufacturing Base and Competitors

Table 172. Gmi Major Business

Table 173. Gmi IO Relay Module Product and Services

Table 174. Gmi IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Gmi Recent Developments/Updates

Table 176. Gmi Competitive Strengths & Weaknesses

Table 177. Yeu Lian Basic Information, Manufacturing Base and Competitors

Table 178. Yeu Lian Major Business

Table 179. Yeu Lian IO Relay Module Product and Services

Table 180. Yeu Lian IO Relay Module Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Yeu Lian Recent Developments/Updates

Table 182. Yeu Lian Competitive Strengths & Weaknesses

Table 183. Global Key Players of IO Relay Module Upstream (Raw Materials)

Table 184. Global IO Relay Module Typical Customers

Table 185. IO Relay Module Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. IO Relay Module Picture

Figure 2. World IO Relay Module Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World IO Relay Module Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World IO Relay Module Production (2021-2032) & (K Units)

Figure 5. World IO Relay Module Average Price (2021-2032) & (US\$/Unit)

Figure 6. World IO Relay Module Production Value Market Share by Region (2021-2032)

Figure 7. World IO Relay Module Production Market Share by Region (2021-2032)

Figure 8. North America IO Relay Module Production (2021-2032) & (K Units)

Figure 9. Europe IO Relay Module Production (2021-2032) & (K Units)

Figure 10. China IO Relay Module Production (2021-2032) & (K Units)

Figure 11. Japan IO Relay Module Production (2021-2032) & (K Units)

Figure 12. South Korea IO Relay Module Production (2021-2032) & (K Units)

Figure 13. China Taiwan IO Relay Module Production (2021-2032) & (K Units)

Figure 14. IO Relay Module Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World IO Relay Module Consumption (2021-2032) & (K Units)

Figure 17. World IO Relay Module Consumption Market Share by Region (2021-2032)

Figure 18. United States IO Relay Module Consumption (2021-2032) & (K Units)

Figure 19. China IO Relay Module Consumption (2021-2032) & (K Units)

Figure 20. Europe IO Relay Module Consumption (2021-2032) & (K Units)

Figure 21. Japan IO Relay Module Consumption (2021-2032) & (K Units)

Figure 22. South Korea IO Relay Module Consumption (2021-2032) & (K Units)

Figure 23. ASEAN IO Relay Module Consumption (2021-2032) & (K Units)

Figure 24. India IO Relay Module Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of IO Relay Module by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for IO Relay Module Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for IO Relay Module Markets in 2025

Figure 28. United States VS China: IO Relay Module Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: IO Relay Module Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: IO Relay Module Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers IO Relay Module Production Market Share 2025

Figure 32. China Based Manufacturers IO Relay Module Production Market Share 2025

Figure 33. Rest of World Based Manufacturers IO Relay Module Production Market Share 2025

Figure 34. World IO Relay Module Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World IO Relay Module Production Value Market Share by Type in 2025

Figure 36. AC Module

Figure 37. DC Module

Figure 38. World IO Relay Module Production Market Share by Type (2021-2032)

Figure 39. World IO Relay Module Production Value Market Share by Type (2021-2032)

Figure 40. World IO Relay Module Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World IO Relay Module Production Value by Input/Output Types, (USD Million), 2021 & 2025 & 2032

Figure 42. World IO Relay Module Production Value Market Share by Input/Output Types in 2025

Figure 43. Digital I/O Relay Module

Figure 44. Analog I/O Relay Module

Figure 45. World IO Relay Module Production Market Share by Input/Output Types (2021-2032)

Figure 46. World IO Relay Module Production Value Market Share by Input/Output Types (2021-2032)

Figure 47. World IO Relay Module Average Price by Input/Output Types (2021-2032) & (US\$/Unit)

Figure 48. World IO Relay Module Production Value by Interface Method, (USD Million), 2021 & 2025 & 2032

Figure 49. World IO Relay Module Production Value Market Share by Interface Method in 2025

Figure 50. Bus-Type IO Relay Module

Figure 51. Ethernet Remote IO Relay Module

Figure 52. Others

Figure 53. World IO Relay Module Production Market Share by Interface Method (2021-2032)

Figure 54. World IO Relay Module Production Value Market Share by Interface Method (2021-2032)

Figure 55. World IO Relay Module Average Price by Interface Method (2021-2032) & (US\$/Unit)

Figure 56. World IO Relay Module Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World IO Relay Module Production Value Market Share by Application in 2025

Figure 58. Consumer Electronics

Figure 59. Food and Pharmaceutical

Figure 60. Plastic Injection Molding

Figure 61. Textile Industry

Figure 62. Scientific Research

Figure 63. Others

Figure 64. World IO Relay Module Production Market Share by Application (2021-2032)

Figure 65. World IO Relay Module Production Value Market Share by Application (2021-2032)

Figure 66. World IO Relay Module Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. IO Relay Module Industry Chain

Figure 68. IO Relay Module Procurement Model

Figure 69. IO Relay Module Sales Model

Figure 70. IO Relay Module Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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