

Global External Device Interface (EDI) Market Growth 2026-2032

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Abstracts

The global External Device Interface (EDI) market size is predicted to grow from US\$ 25542 million in 2025 to US\$ 43043 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

External Device Interface (EDI) is a standardized interface module or communication protocol layer used between a main control system (such as industrial controllers, robot controllers, PLCs, etc.) and external devices. It is responsible for enabling signal exchange and information synchronization between the control system and external hardware (such as sensors, actuators, HMIs, remote I/O, vision systems, etc.). In industrial automation systems, EDI typically refers not only to physical interfaces (such as Ethernet, RS-485, fieldbus, etc.) but also to logical interface layers (communication protocols, data mapping, and device abstraction layers), which are used to achieve interoperability and system integration between different devices. In 2025, global External Device Interface (EDI) production reached approximately 193.41 M units, with an average global market price of around US\$ 135 per unit. Annual production capacity is 210 M units. Gross Profit Margin: 42%. The External Device Interface (EDI) industry chain is structured across three main layers: upstream component suppliers, midstream module manufacturers, and downstream system integrators. Upstream includes semiconductor chips, industrial connectors, PCB boards, and isolation components that determine signal stability and communication speed. Midstream players such as Siemens, Beckhoff, WAGO, and Phoenix Contact design and manufacture IO modules, fieldbus devices, and industrial communication interfaces. Downstream demand comes from robotics, factory automation, semiconductor equipment, energy systems, and logistics automation, where EDI acts as the critical bridge between controllers and field devices. EDI is not just a hardware category but a foundational infrastructure layer of industrial automation. Its value is increasingly driven by system integration complexity.

rather than standalone device performance. As factories move toward higher levels of digitalization and real-time control, demand is shifting toward high-speed, protocol-flexible, and modular interface systems. In my view, the long-term opportunity lies in standardized, software-defined industrial interfaces that reduce integration cost and improve interoperability across heterogeneous automation systems.

United States market for External Device Interface (EDI) 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 External Device Interface (EDI) 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 External Device Interface (EDI) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key External Device Interface (EDI) players cover Siemens, Rockwell Automation, Beckhoff Automation, Schneider Electric, ABB, 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 "External Device Interface (EDI) Industry Forecast" looks at past sales and reviews total world External Device Interface (EDI) sales in 2025, providing a comprehensive analysis by region and market sector of projected External Device Interface (EDI) sales for 2026 through 2032. With External Device Interface (EDI) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world External Device Interface (EDI) industry.

This Insight Report provides a comprehensive analysis of the global External Device Interface (EDI) 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 External Device Interface (EDI) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global External Device Interface (EDI) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for External Device Interface (EDI) and breaks down the forecast by Architecture Layer, 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 External Device Interface (EDI).

This report presents a comprehensive overview, market shares, and growth opportunities of External Device Interface (EDI) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Architecture Layer:

Controller-side Interface

Device-side Interface

Edge Gateway Interface

Cloud-connected Interface

Segmentation by Speed Class:

Low-speed (100 Mbps / Gbps)

Segmentation by Hardware Form Factor:

Embedded Interface Module

External Interface Box

Field I/O Terminal Unit

Integrated Controller Interface

Segmentation by Application:

Industrial

Robotics

Semiconductor & Electronics

Logistics & Warehouse

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Siemens

Rockwell Automation

Beckhoff Automation

Schneider Electric

ABB

Omron

Mitsubishi Electric

Yokogawa Electric

Bosch Rexroth

Phoenix Contact

ODOT Automation

Decowell Automation

Solidot Automation

Supcon

Hollysys

Inovance Technology

HMS Networks

Balluff

IFM Electronic

Pepperl+Fuchs

Key Questions Addressed in this Report

What is the 10-year outlook for the global External Device Interface (EDI) market?

What factors are driving External Device Interface (EDI) market growth, globally and by region?

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

How do External Device Interface (EDI) market opportunities vary by end market size?

How does External Device Interface (EDI) break out by Architecture Layer, by Application?

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 External Device Interface (EDI) Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for External Device Interface (EDI) by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for External Device Interface (EDI) by Country/Region, 2021, 2025 & 2032
- 2.2 External Device Interface (EDI) Segment by Architecture Layer
 - 2.2.1 Controller-side Interface
 - 2.2.2 Device-side Interface
 - 2.2.3 Edge Gateway Interface
 - 2.2.4 Cloud-connected Interface
 - 2.2.5 External Device Interface (EDI) Sales by Architecture Layer
 - 2.2.5.1 Global External Device Interface (EDI) Sales Market Share by Architecture Layer (2021-2026)
 - 2.2.5.2 Global External Device Interface (EDI) Revenue and Market Share by Architecture Layer (2021-2026)
 - 2.2.5.3 Global External Device Interface (EDI) Sale Price by Architecture Layer (2021-2026)
- 2.3 External Device Interface (EDI) Segment by Speed Class
 - 2.3.1 Low-speed (100 Mbps / Gbps)
 - 2.3.4 External Device Interface (EDI) Sales by Speed Class
 - 2.3.4.1 Global External Device Interface (EDI) Sales Market Share by Speed Class (2021-2026)
 - 2.3.4.2 Global External Device Interface (EDI) Revenue and Market Share by Speed

Class (2021-2026)

2.3.4.3 Global External Device Interface (EDI) Sale Price by Speed Class
(2021-2026)

2.4 External Device Interface (EDI) Segment by Hardware Form Factor

2.4.1 Embedded Interface Module

2.4.2 External Interface Box

2.4.3 Field I/O Terminal Unit

2.4.4 Integrated Controller Interface

2.4.5 External Device Interface (EDI) Sales by Hardware Form Factor

2.4.5.1 Global External Device Interface (EDI) Sales Market Share by Hardware
Form Factor (2021-2026)

2.4.5.2 Global External Device Interface (EDI) Revenue and Market Share by
Hardware Form Factor (2021-2026)

2.4.5.3 Global External Device Interface (EDI) Sale Price by Hardware Form Factor
(2021-2026)

2.5 External Device Interface (EDI) Segment by Application

2.5.1 Industrial

2.5.2 Robotics

2.5.3 Semiconductor & Electronics

2.5.4 Logistics & Warehouse

2.5.5 Others

2.5.6 External Device Interface (EDI) Sales by Application

2.5.6.1 Global External Device Interface (EDI) Sale Market Share by Application
(2021-2026)

2.5.6.2 Global External Device Interface (EDI) Revenue and Market Share by
Application (2021-2026)

2.5.6.3 Global External Device Interface (EDI) Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global External Device Interface (EDI) Breakdown Data by Company

3.1.1 Global External Device Interface (EDI) Annual Sales by Company (2021-2026)

3.1.2 Global External Device Interface (EDI) Sales Market Share by Company
(2021-2026)

3.2 Global External Device Interface (EDI) Annual Revenue by Company (2021-2026)

3.2.1 Global External Device Interface (EDI) Revenue by Company (2021-2026)

3.2.2 Global External Device Interface (EDI) Revenue Market Share by Company
(2021-2026)

3.3 Global External Device Interface (EDI) Sale Price by Company

3.4 Key Manufacturers External Device Interface (EDI) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers External Device Interface (EDI) Product Location Distribution

3.4.2 Players External Device Interface (EDI) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR EXTERNAL DEVICE INTERFACE (EDI) BY GEOGRAPHIC REGION

4.1 World Historic External Device Interface (EDI) Market Size by Geographic Region (2021-2026)

4.1.1 Global External Device Interface (EDI) Annual Sales by Geographic Region (2021-2026)

4.1.2 Global External Device Interface (EDI) Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic External Device Interface (EDI) Market Size by Country/Region (2021-2026)

4.2.1 Global External Device Interface (EDI) Annual Sales by Country/Region (2021-2026)

4.2.2 Global External Device Interface (EDI) Annual Revenue by Country/Region (2021-2026)

4.3 Americas External Device Interface (EDI) Sales Growth

4.4 APAC External Device Interface (EDI) Sales Growth

4.5 Europe External Device Interface (EDI) Sales Growth

4.6 Middle East & Africa External Device Interface (EDI) Sales Growth

5 AMERICAS

5.1 Americas External Device Interface (EDI) Sales by Country

5.1.1 Americas External Device Interface (EDI) Sales by Country (2021-2026)

5.1.2 Americas External Device Interface (EDI) Revenue by Country (2021-2026)

5.2 Americas External Device Interface (EDI) Sales by Architecture Layer (2021-2026)

5.3 Americas External Device Interface (EDI) Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC External Device Interface (EDI) Sales by Region

6.1.1 APAC External Device Interface (EDI) Sales by Region (2021-2026)

6.1.2 APAC External Device Interface (EDI) Revenue by Region (2021-2026)

6.2 APAC External Device Interface (EDI) Sales by Architecture Layer (2021-2026)

6.3 APAC External Device Interface (EDI) Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe External Device Interface (EDI) by Country

7.1.1 Europe External Device Interface (EDI) Sales by Country (2021-2026)

7.1.2 Europe External Device Interface (EDI) Revenue by Country (2021-2026)

7.2 Europe External Device Interface (EDI) Sales by Architecture Layer (2021-2026)

7.3 Europe External Device Interface (EDI) Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa External Device Interface (EDI) by Country

8.1.1 Middle East & Africa External Device Interface (EDI) Sales by Country
(2021-2026)

8.1.2 Middle East & Africa External Device Interface (EDI) Revenue by Country
(2021-2026)

8.2 Middle East & Africa External Device Interface (EDI) Sales by Architecture Layer

(2021-2026)

8.3 Middle East & Africa External Device Interface (EDI) Sales by Application

(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of External Device Interface (EDI)

10.3 Manufacturing Process Analysis of External Device Interface (EDI)

10.4 Industry Chain Structure of External Device Interface (EDI)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 External Device Interface (EDI) Distributors

11.3 External Device Interface (EDI) Customer

12 WORLD FORECAST REVIEW FOR EXTERNAL DEVICE INTERFACE (EDI) BY GEOGRAPHIC REGION

12.1 Global External Device Interface (EDI) Market Size Forecast by Region

12.1.1 Global External Device Interface (EDI) Forecast by Region (2027-2032)

12.1.2 Global External Device Interface (EDI) Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global External Device Interface (EDI) Forecast by Architecture Layer (2027-2032)

12.7 Global External Device Interface (EDI) Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Siemens

13.1.1 Siemens Company Information

13.1.2 Siemens External Device Interface (EDI) Product Portfolios and Specifications

13.1.3 Siemens External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Siemens Main Business Overview

13.1.5 Siemens Latest Developments

13.2 Rockwell Automation

13.2.1 Rockwell Automation Company Information

13.2.2 Rockwell Automation External Device Interface (EDI) Product Portfolios and Specifications

13.2.3 Rockwell Automation External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Rockwell Automation Main Business Overview

13.2.5 Rockwell Automation Latest Developments

13.3 Beckhoff Automation

13.3.1 Beckhoff Automation Company Information

13.3.2 Beckhoff Automation External Device Interface (EDI) Product Portfolios and Specifications

13.3.3 Beckhoff Automation External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Beckhoff Automation Main Business Overview

13.3.5 Beckhoff Automation Latest Developments

13.4 Schneider Electric

13.4.1 Schneider Electric Company Information

13.4.2 Schneider Electric External Device Interface (EDI) Product Portfolios and Specifications

13.4.3 Schneider Electric External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Schneider Electric Main Business Overview

13.4.5 Schneider Electric Latest Developments

13.5 ABB

- 13.5.1 ABB Company Information
- 13.5.2 ABB External Device Interface (EDI) Product Portfolios and Specifications
- 13.5.3 ABB External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 ABB Main Business Overview
- 13.5.5 ABB Latest Developments
- 13.6 Omron
 - 13.6.1 Omron Company Information
 - 13.6.2 Omron External Device Interface (EDI) Product Portfolios and Specifications
 - 13.6.3 Omron External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Omron Main Business Overview
 - 13.6.5 Omron Latest Developments
- 13.7 Mitsubishi Electric
 - 13.7.1 Mitsubishi Electric Company Information
 - 13.7.2 Mitsubishi Electric External Device Interface (EDI) Product Portfolios and Specifications
 - 13.7.3 Mitsubishi Electric External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Mitsubishi Electric Main Business Overview
 - 13.7.5 Mitsubishi Electric Latest Developments
- 13.8 Yokogawa Electric
 - 13.8.1 Yokogawa Electric Company Information
 - 13.8.2 Yokogawa Electric External Device Interface (EDI) Product Portfolios and Specifications
 - 13.8.3 Yokogawa Electric External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Yokogawa Electric Main Business Overview
 - 13.8.5 Yokogawa Electric Latest Developments
- 13.9 Bosch Rexroth
 - 13.9.1 Bosch Rexroth Company Information
 - 13.9.2 Bosch Rexroth External Device Interface (EDI) Product Portfolios and Specifications
 - 13.9.3 Bosch Rexroth External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Bosch Rexroth Main Business Overview
 - 13.9.5 Bosch Rexroth Latest Developments
- 13.10 Phoenix Contact
 - 13.10.1 Phoenix Contact Company Information

13.10.2 Phoenix Contact External Device Interface (EDI) Product Portfolios and Specifications

13.10.3 Phoenix Contact External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Phoenix Contact Main Business Overview

13.10.5 Phoenix Contact Latest Developments

13.11 ODOT Automation

13.11.1 ODOT Automation Company Information

13.11.2 ODOT Automation External Device Interface (EDI) Product Portfolios and Specifications

13.11.3 ODOT Automation External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 ODOT Automation Main Business Overview

13.11.5 ODOT Automation Latest Developments

13.12 Decowell Automation

13.12.1 Decowell Automation Company Information

13.12.2 Decowell Automation External Device Interface (EDI) Product Portfolios and Specifications

13.12.3 Decowell Automation External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Decowell Automation Main Business Overview

13.12.5 Decowell Automation Latest Developments

13.13 Solidot Automation

13.13.1 Solidot Automation Company Information

13.13.2 Solidot Automation External Device Interface (EDI) Product Portfolios and Specifications

13.13.3 Solidot Automation External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Solidot Automation Main Business Overview

13.13.5 Solidot Automation Latest Developments

13.14 Supcon

13.14.1 Supcon Company Information

13.14.2 Supcon External Device Interface (EDI) Product Portfolios and Specifications

13.14.3 Supcon External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Supcon Main Business Overview

13.14.5 Supcon Latest Developments

13.15 Hollysys

13.15.1 Hollysys Company Information

- 13.15.2 Hollysys External Device Interface (EDI) Product Portfolios and Specifications
- 13.15.3 Hollysys External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.15.4 Hollysys Main Business Overview
- 13.15.5 Hollysys Latest Developments
- 13.16 Inovance Technology
 - 13.16.1 Inovance Technology Company Information
 - 13.16.2 Inovance Technology External Device Interface (EDI) Product Portfolios and Specifications
 - 13.16.3 Inovance Technology External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Inovance Technology Main Business Overview
 - 13.16.5 Inovance Technology Latest Developments
- 13.17 HMS Networks
 - 13.17.1 HMS Networks Company Information
 - 13.17.2 HMS Networks External Device Interface (EDI) Product Portfolios and Specifications
 - 13.17.3 HMS Networks External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 HMS Networks Main Business Overview
 - 13.17.5 HMS Networks Latest Developments
- 13.18 Balluff
 - 13.18.1 Balluff Company Information
 - 13.18.2 Balluff External Device Interface (EDI) Product Portfolios and Specifications
 - 13.18.3 Balluff External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 Balluff Main Business Overview
 - 13.18.5 Balluff Latest Developments
- 13.19 IFM Electronic
 - 13.19.1 IFM Electronic Company Information
 - 13.19.2 IFM Electronic External Device Interface (EDI) Product Portfolios and Specifications
 - 13.19.3 IFM Electronic External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.19.4 IFM Electronic Main Business Overview
 - 13.19.5 IFM Electronic Latest Developments
- 13.20 Pepperl+Fuchs
 - 13.20.1 Pepperl+Fuchs Company Information
 - 13.20.2 Pepperl+Fuchs External Device Interface (EDI) Product Portfolios and

Specifications

13.20.3 Pepperl+Fuchs External Device Interface (EDI) Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Pepperl+Fuchs Main Business Overview

13.20.5 Pepperl+Fuchs Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. External Device Interface (EDI) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. External Device Interface (EDI) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Controller-side Interface

Table 4. Major Players of Device-side Interface

Table 5. Major Players of Edge Gateway Interface

Table 6. Major Players of Cloud-connected Interface

Table 7. Global External Device Interface (EDI) Sales by Architecture Layer (2021-2026) & (K Units)

Table 8. Global External Device Interface (EDI) Sales Market Share by Architecture Layer (2021-2026)

Table 9. Global External Device Interface (EDI) Revenue by Architecture Layer (2021-2026) & (\$ million)

Table 10. Global External Device Interface (EDI) Revenue Market Share by Architecture Layer (2021-2026)

Table 11. Global External Device Interface (EDI) Sale Price by Architecture Layer (2021-2026) & (US\$/Unit)

Table 12. Major Players of Low-speed (100 Mbps / Gbps)

Table 15. Global External Device Interface (EDI) Sales by Speed Class (2021-2026) & (K Units)

Table 16. Global External Device Interface (EDI) Sales Market Share by Speed Class (2021-2026)

Table 17. Global External Device Interface (EDI) Revenue by Speed Class (2021-2026) & (\$ million)

Table 18. Global External Device Interface (EDI) Revenue Market Share by Speed Class (2021-2026)

Table 19. Global External Device Interface (EDI) Sale Price by Speed Class (2021-2026) & (US\$/Unit)

Table 20. Major Players of Embedded Interface Module

Table 21. Major Players of External Interface Box

Table 22. Major Players of Field I/O Terminal Unit

Table 23. Major Players of Integrated Controller Interface

Table 24. Global External Device Interface (EDI) Sales by Hardware Form Factor (2021-2026) & (K Units)

Table 25. Global External Device Interface (EDI) Sales Market Share by Hardware Form Factor (2021-2026)

Table 26. Global External Device Interface (EDI) Revenue by Hardware Form Factor (2021-2026) & (\$ million)

Table 27. Global External Device Interface (EDI) Revenue Market Share by Hardware Form Factor (2021-2026)

Table 28. Global External Device Interface (EDI) Sale Price by Hardware Form Factor (2021-2026) & (US\$/Unit)

Table 29. Global External Device Interface (EDI) Sale by Application (2021-2026) & (K Units)

Table 30. Global External Device Interface (EDI) Sale Market Share by Application (2021-2026)

Table 31. Global External Device Interface (EDI) Revenue by Application (2021-2026) & (\$ million)

Table 32. Global External Device Interface (EDI) Revenue Market Share by Application (2021-2026)

Table 33. Global External Device Interface (EDI) Sale Price by Application (2021-2026) & (US\$/Unit)

Table 34. Global External Device Interface (EDI) Sales by Company (2021-2026) & (K Units)

Table 35. Global External Device Interface (EDI) Sales Market Share by Company (2021-2026)

Table 36. Global External Device Interface (EDI) Revenue by Company (2021-2026) & (\$ millions)

Table 37. Global External Device Interface (EDI) Revenue Market Share by Company (2021-2026)

Table 38. Global External Device Interface (EDI) Sale Price by Company (2021-2026) & (US\$/Unit)

Table 39. Key Manufacturers External Device Interface (EDI) Producing Area Distribution and Sales Area

Table 40. Players External Device Interface (EDI) Products Offered

Table 41. External Device Interface (EDI) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 42. New Products and Potential Entrants

Table 43. Market M&A Activity & Strategy

Table 44. Global External Device Interface (EDI) Sales by Geographic Region (2021-2026) & (K Units)

Table 45. Global External Device Interface (EDI) Sales Market Share Geographic Region (2021-2026)

Table 46. Global External Device Interface (EDI) Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 47. Global External Device Interface (EDI) Revenue Market Share by Geographic Region (2021-2026)

Table 48. Global External Device Interface (EDI) Sales by Country/Region (2021-2026) & (K Units)

Table 49. Global External Device Interface (EDI) Sales Market Share by Country/Region (2021-2026)

Table 50. Global External Device Interface (EDI) Revenue by Country/Region (2021-2026) & (\$ millions)

Table 51. Global External Device Interface (EDI) Revenue Market Share by Country/Region (2021-2026)

Table 52. Americas External Device Interface (EDI) Sales by Country (2021-2026) & (K Units)

Table 53. Americas External Device Interface (EDI) Sales Market Share by Country (2021-2026)

Table 54. Americas External Device Interface (EDI) Revenue by Country (2021-2026) & (\$ millions)

Table 55. Americas External Device Interface (EDI) Sales by Architecture Layer (2021-2026) & (K Units)

Table 56. Americas External Device Interface (EDI) Sales by Application (2021-2026) & (K Units)

Table 57. APAC External Device Interface (EDI) Sales by Region (2021-2026) & (K Units)

Table 58. APAC External Device Interface (EDI) Sales Market Share by Region (2021-2026)

Table 59. APAC External Device Interface (EDI) Revenue by Region (2021-2026) & (\$ millions)

Table 60. APAC External Device Interface (EDI) Sales by Architecture Layer (2021-2026) & (K Units)

Table 61. APAC External Device Interface (EDI) Sales by Application (2021-2026) & (K Units)

Table 62. Europe External Device Interface (EDI) Sales by Country (2021-2026) & (K Units)

Table 63. Europe External Device Interface (EDI) Revenue by Country (2021-2026) & (\$ millions)

Table 64. Europe External Device Interface (EDI) Sales by Architecture Layer (2021-2026) & (K Units)

Table 65. Europe External Device Interface (EDI) Sales by Application (2021-2026) & (K

Units)

Table 66. Middle East & Africa External Device Interface (EDI) Sales by Country (2021-2026) & (K Units)

Table 67. Middle East & Africa External Device Interface (EDI) Revenue Market Share by Country (2021-2026)

Table 68. Middle East & Africa External Device Interface (EDI) Sales by Architecture Layer (2021-2026) & (K Units)

Table 69. Middle East & Africa External Device Interface (EDI) Sales by Application (2021-2026) & (K Units)

Table 70. Key Market Drivers & Growth Opportunities of External Device Interface (EDI)

Table 71. Key Market Challenges & Risks of External Device Interface (EDI)

Table 72. Key Industry Trends of External Device Interface (EDI)

Table 73. External Device Interface (EDI) Raw Material

Table 74. Key Suppliers of Raw Materials

Table 75. External Device Interface (EDI) Distributors List

Table 76. External Device Interface (EDI) Customer List

Table 77. Global External Device Interface (EDI) Sales Forecast by Region (2027-2032) & (K Units)

Table 78. Global External Device Interface (EDI) Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Americas External Device Interface (EDI) Sales Forecast by Country (2027-2032) & (K Units)

Table 80. Americas External Device Interface (EDI) Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. APAC External Device Interface (EDI) Sales Forecast by Region (2027-2032) & (K Units)

Table 82. APAC External Device Interface (EDI) Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Europe External Device Interface (EDI) Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Europe External Device Interface (EDI) Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Middle East & Africa External Device Interface (EDI) Sales Forecast by Country (2027-2032) & (K Units)

Table 86. Middle East & Africa External Device Interface (EDI) Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 87. Global External Device Interface (EDI) Sales Forecast by Architecture Layer (2027-2032) & (K Units)

Table 88. Global External Device Interface (EDI) Revenue Forecast by Architecture

Layer (2027-2032) & (\$ millions)

Table 89. Global External Device Interface (EDI) Sales Forecast by Application (2027-2032) & (K Units)

Table 90. Global External Device Interface (EDI) Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 91. Siemens Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 92. Siemens External Device Interface (EDI) Product Portfolios and Specifications

Table 93. Siemens External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. Siemens Main Business

Table 95. Siemens Latest Developments

Table 96. Rockwell Automation Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 97. Rockwell Automation External Device Interface (EDI) Product Portfolios and Specifications

Table 98. Rockwell Automation External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. Rockwell Automation Main Business

Table 100. Rockwell Automation Latest Developments

Table 101. Beckhoff Automation Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 102. Beckhoff Automation External Device Interface (EDI) Product Portfolios and Specifications

Table 103. Beckhoff Automation External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Beckhoff Automation Main Business

Table 105. Beckhoff Automation Latest Developments

Table 106. Schneider Electric Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 107. Schneider Electric External Device Interface (EDI) Product Portfolios and Specifications

Table 108. Schneider Electric External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. Schneider Electric Main Business

Table 110. Schneider Electric Latest Developments

Table 111. ABB Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 112. ABB External Device Interface (EDI) Product Portfolios and Specifications

Table 113. ABB External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. ABB Main Business

Table 115. ABB Latest Developments

Table 116. Omron Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 117. Omron External Device Interface (EDI) Product Portfolios and Specifications

Table 118. Omron External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Omron Main Business

Table 120. Omron Latest Developments

Table 121. Mitsubishi Electric Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 122. Mitsubishi Electric External Device Interface (EDI) Product Portfolios and Specifications

Table 123. Mitsubishi Electric External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Mitsubishi Electric Main Business

Table 125. Mitsubishi Electric Latest Developments

Table 126. Yokogawa Electric Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 127. Yokogawa Electric External Device Interface (EDI) Product Portfolios and Specifications

Table 128. Yokogawa Electric External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. Yokogawa Electric Main Business

Table 130. Yokogawa Electric Latest Developments

Table 131. Bosch Rexroth Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 132. Bosch Rexroth External Device Interface (EDI) Product Portfolios and Specifications

Table 133. Bosch Rexroth External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. Bosch Rexroth Main Business

Table 135. Bosch Rexroth Latest Developments

Table 136. Phoenix Contact Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 137. Phoenix Contact External Device Interface (EDI) Product Portfolios and Specifications

Table 138. Phoenix Contact External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. Phoenix Contact Main Business

Table 140. Phoenix Contact Latest Developments

Table 141. ODOT Automation Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 142. ODOT Automation External Device Interface (EDI) Product Portfolios and Specifications

Table 143. ODOT Automation External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 144. ODOT Automation Main Business

Table 145. ODOT Automation Latest Developments

Table 146. Decowell Automation Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 147. Decowell Automation External Device Interface (EDI) Product Portfolios and Specifications

Table 148. Decowell Automation External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 149. Decowell Automation Main Business

Table 150. Decowell Automation Latest Developments

Table 151. Solidot Automation Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 152. Solidot Automation External Device Interface (EDI) Product Portfolios and Specifications

Table 153. Solidot Automation External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 154. Solidot Automation Main Business

Table 155. Solidot Automation Latest Developments

Table 156. Supcon Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 157. Supcon External Device Interface (EDI) Product Portfolios and Specifications

Table 158. Supcon External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. Supcon Main Business

Table 160. Supcon Latest Developments

Table 161. Hollysys Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 162. Hollysys External Device Interface (EDI) Product Portfolios and

Specifications

Table 163. Hollysys External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. Hollysys Main Business

Table 165. Hollysys Latest Developments

Table 166. Inovance Technology Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 167. Inovance Technology External Device Interface (EDI) Product Portfolios and Specifications

Table 168. Inovance Technology External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 169. Inovance Technology Main Business

Table 170. Inovance Technology Latest Developments

Table 171. HMS Networks Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 172. HMS Networks External Device Interface (EDI) Product Portfolios and Specifications

Table 173. HMS Networks External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 174. HMS Networks Main Business

Table 175. HMS Networks Latest Developments

Table 176. Balluff Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 177. Balluff External Device Interface (EDI) Product Portfolios and Specifications

Table 178. Balluff External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 179. Balluff Main Business

Table 180. Balluff Latest Developments

Table 181. IFM Electronic Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 182. IFM Electronic External Device Interface (EDI) Product Portfolios and Specifications

Table 183. IFM Electronic External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 184. IFM Electronic Main Business

Table 185. IFM Electronic Latest Developments

Table 186. Pepperl+Fuchs Basic Information, External Device Interface (EDI) Manufacturing Base, Sales Area and Its Competitors

Table 187. Pepperl+Fuchs External Device Interface (EDI) Product Portfolios and

Specifications

Table 188. Pepperl+Fuchs External Device Interface (EDI) Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 189. Pepperl+Fuchs Main Business

Table 190. Pepperl+Fuchs Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of External Device Interface (EDI)
- Figure 2. External Device Interface (EDI) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global External Device Interface (EDI) Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global External Device Interface (EDI) Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. External Device Interface (EDI) Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. External Device Interface (EDI) Sales Market Share by Country/Region (2025)
- Figure 10. External Device Interface (EDI) Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Controller-side Interface
- Figure 12. Product Picture of Device-side Interface
- Figure 13. Product Picture of Edge Gateway Interface
- Figure 14. Product Picture of Cloud-connected Interface
- Figure 15. Global External Device Interface (EDI) Sales Market Share by Architecture Layer in 2026
- Figure 16. Global External Device Interface (EDI) Revenue Market Share by Architecture Layer (2021-2026)
- Figure 17. Product Picture of Low-speed (100 Mbps / Gbps)
- Figure 20. Global External Device Interface (EDI) Sales Market Share by Speed Class in 2026
- Figure 21. Global External Device Interface (EDI) Revenue Market Share by Speed Class (2021-2026)
- Figure 22. Product Picture of Embedded Interface Module
- Figure 23. Product Picture of External Interface Box
- Figure 24. Product Picture of Field I/O Terminal Unit
- Figure 25. Product Picture of Integrated Controller Interface
- Figure 26. Global External Device Interface (EDI) Sales Market Share by Hardware Form Factor in 2026
- Figure 27. Global External Device Interface (EDI) Revenue Market Share by Hardware Form Factor (2021-2026)

Figure 28. External Device Interface (EDI) Consumed in Industrial

Figure 29. Global External Device Interface (EDI) Market: Industrial (2021-2026) & (K Units)

Figure 30. External Device Interface (EDI) Consumed in Robotics

Figure 31. Global External Device Interface (EDI) Market: Robotics (2021-2026) & (K Units)

Figure 32. External Device Interface (EDI) Consumed in Semiconductor & Electronics

Figure 33. Global External Device Interface (EDI) Market: Semiconductor & Electronics (2021-2026) & (K Units)

Figure 34. External Device Interface (EDI) Consumed in Logistics & Warehouse

Figure 35. Global External Device Interface (EDI) Market: Logistics & Warehouse (2021-2026) & (K Units)

Figure 36. External Device Interface (EDI) Consumed in Others

Figure 37. Global External Device Interface (EDI) Market: Others (2021-2026) & (K Units)

Figure 38. Global External Device Interface (EDI) Sale Market Share by Application (2025)

Figure 39. Global External Device Interface (EDI) Revenue Market Share by Application in 2025

Figure 40. External Device Interface (EDI) Sales by Company in 2025 (K Units)

Figure 41. Global External Device Interface (EDI) Sales Market Share by Company in 2025

Figure 42. External Device Interface (EDI) Revenue by Company in 2025 (\$ millions)

Figure 43. Global External Device Interface (EDI) Revenue Market Share by Company in 2025

Figure 44. Global External Device Interface (EDI) Sales Market Share by Geographic Region (2021-2026)

Figure 45. Global External Device Interface (EDI) Revenue Market Share by Geographic Region in 2025

Figure 46. Americas External Device Interface (EDI) Sales 2021-2026 (K Units)

Figure 47. Americas External Device Interface (EDI) Revenue 2021-2026 (\$ millions)

Figure 48. APAC External Device Interface (EDI) Sales 2021-2026 (K Units)

Figure 49. APAC External Device Interface (EDI) Revenue 2021-2026 (\$ millions)

Figure 50. Europe External Device Interface (EDI) Sales 2021-2026 (K Units)

Figure 51. Europe External Device Interface (EDI) Revenue 2021-2026 (\$ millions)

Figure 52. Middle East & Africa External Device Interface (EDI) Sales 2021-2026 (K Units)

Figure 53. Middle East & Africa External Device Interface (EDI) Revenue 2021-2026 (\$ millions)

Figure 54. Americas External Device Interface (EDI) Sales Market Share by Country in 2025

Figure 55. Americas External Device Interface (EDI) Revenue Market Share by Country (2021-2026)

Figure 56. Americas External Device Interface (EDI) Sales Market Share by Architecture Layer (2021-2026)

Figure 57. Americas External Device Interface (EDI) Sales Market Share by Application (2021-2026)

Figure 58. United States External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 59. Canada External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 60. Mexico External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 61. Brazil External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 62. APAC External Device Interface (EDI) Sales Market Share by Region in 2025

Figure 63. APAC External Device Interface (EDI) Revenue Market Share by Region (2021-2026)

Figure 64. APAC External Device Interface (EDI) Sales Market Share by Architecture Layer (2021-2026)

Figure 65. APAC External Device Interface (EDI) Sales Market Share by Application (2021-2026)

Figure 66. China External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 67. Japan External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Korea External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 69. Southeast Asia External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 70. India External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 71. Australia External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 72. China Taiwan External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 73. Europe External Device Interface (EDI) Sales Market Share by Country in 2025

Figure 74. Europe External Device Interface (EDI) Revenue Market Share by Country

(2021-2026)

Figure 75. Europe External Device Interface (EDI) Sales Market Share by Architecture Layer (2021-2026)

Figure 76. Europe External Device Interface (EDI) Sales Market Share by Application (2021-2026)

Figure 77. Germany External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 78. France External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 79. UK External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 80. Italy External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 81. Russia External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 82. Middle East & Africa External Device Interface (EDI) Sales Market Share by Country (2021-2026)

Figure 83. Middle East & Africa External Device Interface (EDI) Sales Market Share by Architecture Layer (2021-2026)

Figure 84. Middle East & Africa External Device Interface (EDI) Sales Market Share by Application (2021-2026)

Figure 85. Egypt External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 86. South Africa External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 87. Israel External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 88. Turkey External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 89. GCC Countries External Device Interface (EDI) Revenue Growth 2021-2026 (\$ millions)

Figure 90. Manufacturing Cost Structure Analysis of External Device Interface (EDI) in 2026

Figure 91. Manufacturing Process Analysis of External Device Interface (EDI)

Figure 92. Industry Chain Structure of External Device Interface (EDI)

Figure 93. Channels of Distribution

Figure 94. Global External Device Interface (EDI) Sales Market Forecast by Region (2027-2032)

Figure 95. Global External Device Interface (EDI) Revenue Market Share Forecast by Region (2027-2032)

Figure 96. Global External Device Interface (EDI) Sales Market Share Forecast by

Architecture Layer (2027-2032)

Figure 97. Global External Device Interface (EDI) Revenue Market Share Forecast by Architecture Layer (2027-2032)

Figure 98. Global External Device Interface (EDI) Sales Market Share Forecast by Application (2027-2032)

Figure 99. Global External Device Interface (EDI) Revenue Market Share Forecast by Application (2027-2032)

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