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Global Multi-channel I/O Expander Market Growth 2026-2032

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Abstracts

The global Multi-channel I/O Expander market size is predicted to grow from US$ 160 million in 2025 to US$ 256 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

Multi-channel I/O expanders are integrated circuit devices that expand the number of input/output ports of a microcontroller or processor through a specific bus protocol. They can communicate with the main controller via the corresponding bus, adding multiple configurable I/O ports to the system to adapt to the needs of multi-device connection and signal transmission. Sales in 2024 were approximately 68 million units, with an average unit price of approximately $2.15 and a single-line capacity of approximately 3.6 million units per year. Upstream companies are concentrated in the semiconductor materials and components field, including chemical companies that provide silicon wafers, photoresists, and other materials, as well as manufacturers of basic components such as resistors, capacitors, and transistors. Midstream companies also include chip design companies; downstream companies cover multiple fields such as industrial automation, consumer electronics, smart homes, and IoT device manufacturing. Its gross profit margin is approximately 38%. The product cost structure is primarily composed of raw material costs, accounting for approximately 55%, mainly the cost of high-purity silicon wafers and various electronic components; packaging and testing costs account for approximately 20%, involving investment in chip packaging materials and specialized testing equipment; R&D costs account for approximately 15%, used for bus protocol optimization and performance upgrades; the remainder consists of production management, labor, and other miscellaneous costs. Products can be categorized by parameters as follows: by the number of channels (4-bit, 8-bit, 16-bit, etc.); by communication bus type (I2C bus, SPI bus, single-wire protocol, etc.); by operating voltage (1.65V to 3.3V low-voltage type, 3.3V to 5.5V wide-voltage type, etc.);

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and by operating temperature (civilian standard temperature type, industrial wide-temperature type, etc.). The downstream demand list includes sensor and actuator connections in industrial automation, button backlight control in consumer electronics, interface expansion for home appliances in smart homes, multi-module signal transmission in IoT devices, port expansion for in-vehicle devices in automotive electronics, and control interface expansion for small instruments in medical equipment. The downstream customer list includes chip manufacturers such as NXP and Texas Instruments, industrial automation equipment manufacturers such as Siemens, consumer electronics companies such as Xiaomi and Huawei, home appliance companies such as Midea and Gree, as well as various IoT terminal and medical instrument manufacturers. In terms of business opportunities, policy-driven factors include: policies promoting industrial digital transformation and intelligent manufacturing in various countries are forcing the upgrading of industrial equipment, increasing the demand for multi-channel I/O expanders adapted to industrial scenarios; at the same time, policies supporting the localization of the electronics and information industry support the R&D of domestic enterprises and lower market entry barriers; technological innovation-driven factors include: improved bus transmission rates and breakthroughs in low-power technologies, enabling multi-channel I/O expanders to adapt to more complex high-frequency, multi-device scenarios, while products integrating interrupt output and signal conversion are more competitive; and changing consumer demands, with consumers increasingly demanding miniaturized and multifunctional electronic products. Smart homes and portable devices require more peripherals to be connected within limited space, which necessitates the development of multi-channel I/O expanders towards miniaturization and high integration, further creating business opportunities for customized products adapted to different niche scenarios and bringing more market space to related enterprises.

United States market for Multi-channel I/O Expander 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 Multi-channel I/O Expander 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 Multi-channel I/O Expander is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Multi-channel I/O Expander players cover ADI, TI, NXP, Microchip, Infineon, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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Report Scope

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

This Insight Report provides a comprehensive analysis of the global Multi-channel I/O Expander 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 Multi-channel I/O Expander portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Multi-channel I/O Expander market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Multi-channel I/O Expander 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 Multi-channel I/O Expander.

This report presents a comprehensive overview, market shares, and growth opportunities of Multi-channel I/O Expander market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

4-Channel

8-Channel

16-Channel

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Other

Segmentation by bit:

20-Bit

40-Bit

60-Bit

Segmentation by Power Consumption:

Power Consumption: <2.5 ?a

Power Consumption: ?2.5 ?a

Segmentation by Application:

Servers And Routers

Automotive

Surveying

Consumer Electronics

Telecommunications Equipment

Other

This report also splits the market by region:

Americas

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United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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.

ADI

TI

NXP

Microchip

Infineon

Onsemi

Semtech

Toshiba

Nexperia

Nanjing Qinheng Microelectronics

3Peak

Montage Technology

Shanghai Zhaoxin Semiconductor

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Multi-channel I/O Expander market?

What factors are driving Multi-channel I/O Expander market growth, globally and by region?

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

How do Multi-channel I/O Expander market opportunities vary by end market size?

How does Multi-channel I/O Expander break out by Type, by Application?

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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 Multi-channel I/O Expander Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Multi-channel I/O Expander by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Multi-channel I/O Expander by Country/Region, 2021, 2025 & 2032
2.2 Multi-channel I/O Expander Segment by Type
  2.2.1 4-Channel
  2.2.2 8-Channel
  2.2.3 16-Channel
  2.2.4 Other
  2.2.5 Multi-channel I/O Expander Sales by Type
    2.2.5.1 Global Multi-channel I/O Expander Sales Market Share by Type (2021-2026)
    2.2.5.2 Global Multi-channel I/O Expander Revenue and Market Share by Type (2021-2026)
    2.2.5.3 Global Multi-channel I/O Expander Sale Price by Type (2021-2026)
2.3 Multi-channel I/O Expander Segment by bit
  2.3.1 20-Bit
  2.3.2 40-Bit
  2.3.3 60-Bit
  2.3.4 Multi-channel I/O Expander Sales by bit
    2.3.4.1 Global Multi-channel I/O Expander Sales Market Share by bit (2021-2026)
    2.3.4.2 Global Multi-channel I/O Expander Revenue and Market Share by bit (2021-2026)

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2.3.4.3 Global Multi-channel I/O Expander Sale Price by bit (2021-2026)
2.4 Multi-channel I/O Expander Segment by Power Consumption
2.4.1 Power Consumption: <2.5 ?a
2.4.2 Power Consumption: ?2.5 ?a
2.4.3 Multi-channel I/O Expander Sales by Power Consumption
2.4.3.1 Global Multi-channel I/O Expander Sales Market Share by Power Consumption (2021-2026)
2.4.3.2 Global Multi-channel I/O Expander Revenue and Market Share by Power Consumption (2021-2026)
2.4.3.3 Global Multi-channel I/O Expander Sale Price by Power Consumption (2021-2026)
2.5 Multi-channel I/O Expander Segment by Application
2.5.1 Servers And Routers
2.5.2 Automotive
2.5.3 Surveying
2.5.4 Consumer Electronics
2.5.5 Telecommunications Equipment
2.5.6 Other
2.5.7 Multi-channel I/O Expander Sales by Application
2.5.7.1 Global Multi-channel I/O Expander Sale Market Share by Application (2021-2026)
2.5.7.2 Global Multi-channel I/O Expander Revenue and Market Share by Application (2021-2026)
2.5.7.3 Global Multi-channel I/O Expander Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Multi-channel I/O Expander Breakdown Data by Company
3.1.1 Global Multi-channel I/O Expander Annual Sales by Company (2021-2026)
3.1.2 Global Multi-channel I/O Expander Sales Market Share by Company (2021-2026)
3.2 Global Multi-channel I/O Expander Annual Revenue by Company (2021-2026)
3.2.1 Global Multi-channel I/O Expander Revenue by Company (2021-2026)
3.2.2 Global Multi-channel I/O Expander Revenue Market Share by Company (2021-2026)
3.3 Global Multi-channel I/O Expander Sale Price by Company
3.4 Key Manufacturers Multi-channel I/O Expander Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Multi-channel I/O Expander Product Location Distribution

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3.4.2 Players Multi-channel I/O Expander 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 MULTI-CHANNEL I/O EXPANDER BY GEOGRAPHIC REGION

4.1 World Historic Multi-channel I/O Expander Market Size by Geographic Region (2021-2026)
4.1.1 Global Multi-channel I/O Expander Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Multi-channel I/O Expander Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Multi-channel I/O Expander Market Size by Country/Region (2021-2026)
4.2.1 Global Multi-channel I/O Expander Annual Sales by Country/Region (2021-2026)
4.2.2 Global Multi-channel I/O Expander Annual Revenue by Country/Region (2021-2026)
4.3 Americas Multi-channel I/O Expander Sales Growth
4.4 APAC Multi-channel I/O Expander Sales Growth
4.5 Europe Multi-channel I/O Expander Sales Growth
4.6 Middle East & Africa Multi-channel I/O Expander Sales Growth

5 AMERICAS

5.1 Americas Multi-channel I/O Expander Sales by Country
5.1.1 Americas Multi-channel I/O Expander Sales by Country (2021-2026)
5.1.2 Americas Multi-channel I/O Expander Revenue by Country (2021-2026)
5.2 Americas Multi-channel I/O Expander Sales by Type (2021-2026)
5.3 Americas Multi-channel I/O Expander Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

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6.1 APAC Multi-channel I/O Expander Sales by Region
6.1.1 APAC Multi-channel I/O Expander Sales by Region (2021-2026)
6.1.2 APAC Multi-channel I/O Expander Revenue by Region (2021-2026)
6.2 APAC Multi-channel I/O Expander Sales by Type (2021-2026)
6.3 APAC Multi-channel I/O Expander 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 Multi-channel I/O Expander by Country
7.1.1 Europe Multi-channel I/O Expander Sales by Country (2021-2026)
7.1.2 Europe Multi-channel I/O Expander Revenue by Country (2021-2026)
7.2 Europe Multi-channel I/O Expander Sales by Type (2021-2026)
7.3 Europe Multi-channel I/O Expander 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 Multi-channel I/O Expander by Country
8.1.1 Middle East & Africa Multi-channel I/O Expander Sales by Country (2021-2026)
8.1.2 Middle East & Africa Multi-channel I/O Expander Revenue by Country (2021-2026)
8.2 Middle East & Africa Multi-channel I/O Expander Sales by Type (2021-2026)
8.3 Middle East & Africa Multi-channel I/O Expander Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey

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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 Multi-channel I/O Expander
10.3 Manufacturing Process Analysis of Multi-channel I/O Expander
10.4 Industry Chain Structure of Multi-channel I/O Expander

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Multi-channel I/O Expander Distributors
11.3 Multi-channel I/O Expander Customer

12 WORLD FORECAST REVIEW FOR MULTI-CHANNEL I/O EXPANDER BY GEOGRAPHIC REGION

12.1 Global Multi-channel I/O Expander Market Size Forecast by Region
  12.1.1 Global Multi-channel I/O Expander Forecast by Region (2027-2032)
  12.1.2 Global Multi-channel I/O Expander 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 Multi-channel I/O Expander Forecast by Type (2027-2032)
12.7 Global Multi-channel I/O Expander Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

+357 96 030922
info@marketpublishers.com

13.1 ADI
13.1.1 ADI Company Information
13.1.2 ADI Multi-channel I/O Expander Product Portfolios and Specifications
13.1.3 ADI Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 ADI Main Business Overview
13.1.5 ADI Latest Developments
13.2 TI
13.2.1 TI Company Information
13.2.2 TI Multi-channel I/O Expander Product Portfolios and Specifications
13.2.3 TI Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 TI Main Business Overview
13.2.5 TI Latest Developments
13.3 NXP
13.3.1 NXP Company Information
13.3.2 NXP Multi-channel I/O Expander Product Portfolios and Specifications
13.3.3 NXP Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 NXP Main Business Overview
13.3.5 NXP Latest Developments
13.4 Microchip
13.4.1 Microchip Company Information
13.4.2 Microchip Multi-channel I/O Expander Product Portfolios and Specifications
13.4.3 Microchip Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Microchip Main Business Overview
13.4.5 Microchip Latest Developments
13.5 Infineon
13.5.1 Infineon Company Information
13.5.2 Infineon Multi-channel I/O Expander Product Portfolios and Specifications
13.5.3 Infineon Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Infineon Main Business Overview
13.5.5 Infineon Latest Developments
13.6 Onsemi
13.6.1 Onsemi Company Information
13.6.2 Onsemi Multi-channel I/O Expander Product Portfolios and Specifications
13.6.3 Onsemi Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin

+357 96 030922
info@marketpublishers.com

(2021-2026)
13.6.4 Onsemi Main Business Overview
13.6.5 Onsemi Latest Developments
13.7 Semtech
13.7.1 Semtech Company Information
13.7.2 Semtech Multi-channel I/O Expander Product Portfolios and Specifications
13.7.3 Semtech Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Semtech Main Business Overview
13.7.5 Semtech Latest Developments
13.8 Toshiba
13.8.1 Toshiba Company Information
13.8.2 Toshiba Multi-channel I/O Expander Product Portfolios and Specifications
13.8.3 Toshiba Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Toshiba Main Business Overview
13.8.5 Toshiba Latest Developments
13.9 Nexperia
13.9.1 Nexperia Company Information
13.9.2 Nexperia Multi-channel I/O Expander Product Portfolios and Specifications
13.9.3 Nexperia Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Nexperia Main Business Overview
13.9.5 Nexperia Latest Developments
13.10 Nanjing Qinheng Microelectronics
13.10.1 Nanjing Qinheng Microelectronics Company Information
13.10.2 Nanjing Qinheng Microelectronics Multi-channel I/O Expander Product Portfolios and Specifications
13.10.3 Nanjing Qinheng Microelectronics Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Nanjing Qinheng Microelectronics Main Business Overview
13.10.5 Nanjing Qinheng Microelectronics Latest Developments
13.11 3Peak
13.11.1 3Peak Company Information
13.11.2 3Peak Multi-channel I/O Expander Product Portfolios and Specifications
13.11.3 3Peak Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 3Peak Main Business Overview
13.11.5 3Peak Latest Developments

+357 96 030922
info@marketpublishers.com

13.12 Montage Technology
13.12.1 Montage Technology Company Information
13.12.2 Montage Technology Multi-channel I/O Expander Product Portfolios and Specifications
13.12.3 Montage Technology Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Montage Technology Main Business Overview
13.12.5 Montage Technology Latest Developments
13.13 Shanghai Zhaoxin Semiconductor
13.13.1 Shanghai Zhaoxin Semiconductor Company Information
13.13.2 Shanghai Zhaoxin Semiconductor Multi-channel I/O Expander Product Portfolios and Specifications
13.13.3 Shanghai Zhaoxin Semiconductor Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Shanghai Zhaoxin Semiconductor Main Business Overview
13.13.5 Shanghai Zhaoxin Semiconductor Latest Developments
13.14 ETEK
13.14.1 ETEK Company Information
13.14.2 ETEK Multi-channel I/O Expander Product Portfolios and Specifications
13.14.3 ETEK Multi-channel I/O Expander Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 ETEK Main Business Overview
13.14.5 ETEK Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Multi-channel I/O Expander Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Multi-channel I/O Expander Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of 4-Channel
Table 4. Major Players of 8-Channel
Table 5. Major Players of 16-Channel
Table 6. Major Players of Other
Table 7. Global Multi-channel I/O Expander Sales by Type (2021-2026) & (K Pcs)
Table 8. Global Multi-channel I/O Expander Sales Market Share by Type (2021-2026)
Table 9. Global Multi-channel I/O Expander Revenue by Type (2021-2026) & ($ million)
Table 10. Global Multi-channel I/O Expander Revenue Market Share by Type (2021-2026)
Table 11. Global Multi-channel I/O Expander Sale Price by Type (2021-2026) & (US$/Pcs)
Table 12. Major Players of 20-Bit
Table 13. Major Players of 40-Bit
Table 14. Major Players of 60-Bit
Table 15. Global Multi-channel I/O Expander Sales by bit (2021-2026) & (K Pcs)
Table 16. Global Multi-channel I/O Expander Sales Market Share by bit (2021-2026)
Table 17. Global Multi-channel I/O Expander Revenue by bit (2021-2026) & ($ million)
Table 18. Global Multi-channel I/O Expander Revenue Market Share by bit (2021-2026)
Table 19. Global Multi-channel I/O Expander Sale Price by bit (2021-2026) & (US$/Pcs)
Table 20. Major Players of Power Consumption: <2.5 ?a
Table 21. Major Players of Power Consumption: ?2.5 ?a
Table 22. Global Multi-channel I/O Expander Sales by Power Consumption (2021-2026) & (K Pcs)
Table 23. Global Multi-channel I/O Expander Sales Market Share by Power Consumption (2021-2026)
Table 24. Global Multi-channel I/O Expander Revenue by Power Consumption (2021-2026) & ($ million)
Table 25. Global Multi-channel I/O Expander Revenue Market Share by Power Consumption (2021-2026)
Table 26. Global Multi-channel I/O Expander Sale Price by Power Consumption (2021-2026) & (US$/Pcs)

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info@marketpublishers.com

Table 27. Global Multi-channel I/O Expander Sale by Application (2021-2026) & (K Pcs)
Table 28. Global Multi-channel I/O Expander Sale Market Share by Application (2021-2026)
Table 29. Global Multi-channel I/O Expander Revenue by Application (2021-2026) & ($ million)
Table 30. Global Multi-channel I/O Expander Revenue Market Share by Application (2021-2026)
Table 31. Global Multi-channel I/O Expander Sale Price by Application (2021-2026) & (US$/Pcs)
Table 32. Global Multi-channel I/O Expander Sales by Company (2021-2026) & (K Pcs)
Table 33. Global Multi-channel I/O Expander Sales Market Share by Company (2021-2026)
Table 34. Global Multi-channel I/O Expander Revenue by Company (2021-2026) & ($ millions)
Table 35. Global Multi-channel I/O Expander Revenue Market Share by Company (2021-2026)
Table 36. Global Multi-channel I/O Expander Sale Price by Company (2021-2026) & (US$/Pcs)
Table 37. Key Manufacturers Multi-channel I/O Expander Producing Area Distribution and Sales Area
Table 38. Players Multi-channel I/O Expander Products Offered
Table 39. Multi-channel I/O Expander Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 40. New Products and Potential Entrants
Table 41. Market M&A Activity & Strategy
Table 42. Global Multi-channel I/O Expander Sales by Geographic Region (2021-2026) & (K Pcs)
Table 43. Global Multi-channel I/O Expander Sales Market Share Geographic Region (2021-2026)
Table 44. Global Multi-channel I/O Expander Revenue by Geographic Region (2021-2026) & ($ millions)
Table 45. Global Multi-channel I/O Expander Revenue Market Share by Geographic Region (2021-2026)
Table 46. Global Multi-channel I/O Expander Sales by Country/Region (2021-2026) & (K Pcs)
Table 47. Global Multi-channel I/O Expander Sales Market Share by Country/Region (2021-2026)
Table 48. Global Multi-channel I/O Expander Revenue by Country/Region (2021-2026) & ($ millions)

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Table 49. Global Multi-channel I/O Expander Revenue Market Share by Country/Region (2021-2026)
Table 50. Americas Multi-channel I/O Expander Sales by Country (2021-2026) & (K Pcs)
Table 51. Americas Multi-channel I/O Expander Sales Market Share by Country (2021-2026)
Table 52. Americas Multi-channel I/O Expander Revenue by Country (2021-2026) & ($ millions)
Table 53. Americas Multi-channel I/O Expander Sales by Type (2021-2026) & (K Pcs)
Table 54. Americas Multi-channel I/O Expander Sales by Application (2021-2026) & (K Pcs)
Table 55. APAC Multi-channel I/O Expander Sales by Region (2021-2026) & (K Pcs)
Table 56. APAC Multi-channel I/O Expander Sales Market Share by Region (2021-2026)
Table 57. APAC Multi-channel I/O Expander Revenue by Region (2021-2026) & ($ millions)
Table 58. APAC Multi-channel I/O Expander Sales by Type (2021-2026) & (K Pcs)
Table 59. APAC Multi-channel I/O Expander Sales by Application (2021-2026) & (K Pcs)
Table 60. Europe Multi-channel I/O Expander Sales by Country (2021-2026) & (K Pcs)
Table 61. Europe Multi-channel I/O Expander Revenue by Country (2021-2026) & ($ millions)
Table 62. Europe Multi-channel I/O Expander Sales by Type (2021-2026) & (K Pcs)
Table 63. Europe Multi-channel I/O Expander Sales by Application (2021-2026) & (K Pcs)
Table 64. Middle East & Africa Multi-channel I/O Expander Sales by Country (2021-2026) & (K Pcs)
Table 65. Middle East & Africa Multi-channel I/O Expander Revenue Market Share by Country (2021-2026)
Table 66. Middle East & Africa Multi-channel I/O Expander Sales by Type (2021-2026) & (K Pcs)
Table 67. Middle East & Africa Multi-channel I/O Expander Sales by Application (2021-2026) & (K Pcs)
Table 68. Key Market Drivers & Growth Opportunities of Multi-channel I/O Expander
Table 69. Key Market Challenges & Risks of Multi-channel I/O Expander
Table 70. Key Industry Trends of Multi-channel I/O Expander
Table 71. Multi-channel I/O Expander Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Multi-channel I/O Expander Distributors List

+357 96 030922
info@marketpublishers.com

Table 74. Multi-channel I/O Expander Customer List
Table 75. Global Multi-channel I/O Expander Sales Forecast by Region (2027-2032) & (K Pcs)
Table 76. Global Multi-channel I/O Expander Revenue Forecast by Region (2027-2032) & ($ millions)
Table 77. Americas Multi-channel I/O Expander Sales Forecast by Country (2027-2032) & (K Pcs)
Table 78. Americas Multi-channel I/O Expander Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 79. APAC Multi-channel I/O Expander Sales Forecast by Region (2027-2032) & (K Pcs)
Table 80. APAC Multi-channel I/O Expander Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 81. Europe Multi-channel I/O Expander Sales Forecast by Country (2027-2032) & (K Pcs)
Table 82. Europe Multi-channel I/O Expander Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Middle East & Africa Multi-channel I/O Expander Sales Forecast by Country (2027-2032) & (K Pcs)
Table 84. Middle East & Africa Multi-channel I/O Expander Revenue Forecast by Country (2027-2032) & ($ millions)
Table 85. Global Multi-channel I/O Expander Sales Forecast by Type (2027-2032) & (K Pcs)
Table 86. Global Multi-channel I/O Expander Revenue Forecast by Type (2027-2032) & ($ millions)
Table 87. Global Multi-channel I/O Expander Sales Forecast by Application (2027-2032) & (K Pcs)
Table 88. Global Multi-channel I/O Expander Revenue Forecast by Application (2027-2032) & ($ millions)
Table 89. ADI Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 90. ADI Multi-channel I/O Expander Product Portfolios and Specifications
Table 91. ADI Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 92. ADI Main Business
Table 93. ADI Latest Developments
Table 94. TI Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 95. TI Multi-channel I/O Expander Product Portfolios and Specifications

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Table 96. TI Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 97. TI Main Business
Table 98. TI Latest Developments
Table 99. NXP Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 100. NXP Multi-channel I/O Expander Product Portfolios and Specifications
Table 101. NXP Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 102. NXP Main Business
Table 103. NXP Latest Developments
Table 104. Microchip Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 105. Microchip Multi-channel I/O Expander Product Portfolios and Specifications
Table 106. Microchip Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 107. Microchip Main Business
Table 108. Microchip Latest Developments
Table 109. Infineon Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 110. Infineon Multi-channel I/O Expander Product Portfolios and Specifications
Table 111. Infineon Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 112. Infineon Main Business
Table 113. Infineon Latest Developments
Table 114. Onsemi Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 115. Onsemi Multi-channel I/O Expander Product Portfolios and Specifications
Table 116. Onsemi Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 117. Onsemi Main Business
Table 118. Onsemi Latest Developments
Table 119. Semtech Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 120. Semtech Multi-channel I/O Expander Product Portfolios and Specifications
Table 121. Semtech Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 122. Semtech Main Business
Table 123. Semtech Latest Developments

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Table 124. Toshiba Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 125. Toshiba Multi-channel I/O Expander Product Portfolios and Specifications
Table 126. Toshiba Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 127. Toshiba Main Business
Table 128. Toshiba Latest Developments
Table 129. Nexperia Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 130. Nexperia Multi-channel I/O Expander Product Portfolios and Specifications
Table 131. Nexperia Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 132. Nexperia Main Business
Table 133. Nexperia Latest Developments
Table 134. Nanjing Qinheng Microelectronics Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 135. Nanjing Qinheng Microelectronics Multi-channel I/O Expander Product Portfolios and Specifications
Table 136. Nanjing Qinheng Microelectronics Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 137. Nanjing Qinheng Microelectronics Main Business
Table 138. Nanjing Qinheng Microelectronics Latest Developments
Table 139. 3Peak Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 140. 3Peak Multi-channel I/O Expander Product Portfolios and Specifications
Table 141. 3Peak Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 142. 3Peak Main Business
Table 143. 3Peak Latest Developments
Table 144. Montage Technology Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 145. Montage Technology Multi-channel I/O Expander Product Portfolios and Specifications
Table 146. Montage Technology Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 147. Montage Technology Main Business
Table 148. Montage Technology Latest Developments
Table 149. Shanghai Zhaoxin Semiconductor Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors

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Table 150. Shanghai Zhaoxin Semiconductor Multi-channel I/O Expander Product Portfolios and Specifications
Table 151. Shanghai Zhaoxin Semiconductor Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 152. Shanghai Zhaoxin Semiconductor Main Business
Table 153. Shanghai Zhaoxin Semiconductor Latest Developments
Table 154. ETEK Basic Information, Multi-channel I/O Expander Manufacturing Base, Sales Area and Its Competitors
Table 155. ETEK Multi-channel I/O Expander Product Portfolios and Specifications
Table 156. ETEK Multi-channel I/O Expander Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 157. ETEK Main Business
Table 158. ETEK Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Multi-channel I/O Expander
Figure 2. Multi-channel I/O Expander Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Multi-channel I/O Expander Sales Growth Rate 2021-2032 (K Pcs)
Figure 7. Global Multi-channel I/O Expander Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Multi-channel I/O Expander Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Multi-channel I/O Expander Sales Market Share by Country/Region (2025)
Figure 10. Multi-channel I/O Expander Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of 4-Channel
Figure 12. Product Picture of 8-Channel
Figure 13. Product Picture of 16-Channel
Figure 14. Product Picture of Other
Figure 15. Global Multi-channel I/O Expander Sales Market Share by Type in 2026
Figure 16. Global Multi-channel I/O Expander Revenue Market Share by Type (2021-2026)
Figure 17. Product Picture of 20-Bit
Figure 18. Product Picture of 40-Bit
Figure 19. Product Picture of 60-Bit
Figure 20. Global Multi-channel I/O Expander Sales Market Share by bit in 2026
Figure 21. Global Multi-channel I/O Expander Revenue Market Share by bit (2021-2026)
Figure 22. Product Picture of Power Consumption: <2.5 ?a
Figure 23. Product Picture of Power Consumption: ?2.5 ?a
Figure 24. Global Multi-channel I/O Expander Sales Market Share by Power Consumption in 2026
Figure 25. Global Multi-channel I/O Expander Revenue Market Share by Power Consumption (2021-2026)
Figure 26. Multi-channel I/O Expander Consumed in Servers And Routers
Figure 27. Global Multi-channel I/O Expander Market: Servers And Routers (2021-2026) & (K Pcs)

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Figure 28. Multi-channel I/O Expander Consumed in Automotive
Figure 29. Global Multi-channel I/O Expander Market: Automotive (2021-2026) & (K Pcs)
Figure 30. Multi-channel I/O Expander Consumed in Surveying
Figure 31. Global Multi-channel I/O Expander Market: Surveying (2021-2026) & (K Pcs)
Figure 32. Multi-channel I/O Expander Consumed in Consumer Electronics
Figure 33. Global Multi-channel I/O Expander Market: Consumer Electronics (2021-2026) & (K Pcs)
Figure 34. Multi-channel I/O Expander Consumed in Telecommunications Equipment
Figure 35. Global Multi-channel I/O Expander Market: Telecommunications Equipment (2021-2026) & (K Pcs)
Figure 36. Multi-channel I/O Expander Consumed in Other
Figure 37. Global Multi-channel I/O Expander Market: Other (2021-2026) & (K Pcs)
Figure 38. Global Multi-channel I/O Expander Sale Market Share by Application (2025)
Figure 39. Global Multi-channel I/O Expander Revenue Market Share by Application in 2026
Figure 40. Multi-channel I/O Expander Sales by Company in 2026 (K Pcs)
Figure 41. Global Multi-channel I/O Expander Sales Market Share by Company in 2026
Figure 42. Multi-channel I/O Expander Revenue by Company in 2026 ($ millions)
Figure 43. Global Multi-channel I/O Expander Revenue Market Share by Company in 2026
Figure 44. Global Multi-channel I/O Expander Sales Market Share by Geographic Region (2021-2026)
Figure 45. Global Multi-channel I/O Expander Revenue Market Share by Geographic Region in 2026
Figure 46. Americas Multi-channel I/O Expander Sales 2021-2026 (K Pcs)
Figure 47. Americas Multi-channel I/O Expander Revenue 2021-2026 ($ millions)
Figure 48. APAC Multi-channel I/O Expander Sales 2021-2026 (K Pcs)
Figure 49. APAC Multi-channel I/O Expander Revenue 2021-2026 ($ millions)
Figure 50. Europe Multi-channel I/O Expander Sales 2021-2026 (K Pcs)
Figure 51. Europe Multi-channel I/O Expander Revenue 2021-2026 ($ millions)
Figure 52. Middle East & Africa Multi-channel I/O Expander Sales 2021-2026 (K Pcs)
Figure 53. Middle East & Africa Multi-channel I/O Expander Revenue 2021-2026 ($ millions)
Figure 54. Americas Multi-channel I/O Expander Sales Market Share by Country in 2026
Figure 55. Americas Multi-channel I/O Expander Revenue Market Share by Country (2021-2026)
Figure 56. Americas Multi-channel I/O Expander Sales Market Share by Type

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(2021-2026)
Figure 57. Americas Multi-channel I/O Expander Sales Market Share by Application (2021-2026)
Figure 58. United States Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 59. Canada Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 60. Mexico Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 61. Brazil Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 62. APAC Multi-channel I/O Expander Sales Market Share by Region in 2026
Figure 63. APAC Multi-channel I/O Expander Revenue Market Share by Region (2021-2026)
Figure 64. APAC Multi-channel I/O Expander Sales Market Share by Type (2021-2026)
Figure 65. APAC Multi-channel I/O Expander Sales Market Share by Application (2021-2026)
Figure 66. China Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 67. Japan Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 68. South Korea Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 69. Southeast Asia Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 70. India Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 71. Australia Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 72. China Taiwan Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 73. Europe Multi-channel I/O Expander Sales Market Share by Country in 2026
Figure 74. Europe Multi-channel I/O Expander Revenue Market Share by Country (2021-2026)
Figure 75. Europe Multi-channel I/O Expander Sales Market Share by Type (2021-2026)
Figure 76. Europe Multi-channel I/O Expander Sales Market Share by Application (2021-2026)
Figure 77. Germany Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 78. France Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 79. UK Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 80. Italy Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 81. Russia Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 82. Middle East & Africa Multi-channel I/O Expander Sales Market Share by

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Country (2021-2026)
Figure 83. Middle East & Africa Multi-channel I/O Expander Sales Market Share by Type (2021-2026)
Figure 84. Middle East & Africa Multi-channel I/O Expander Sales Market Share by Application (2021-2026)
Figure 85. Egypt Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 86. South Africa Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 87. Israel Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 88. Turkey Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 89. GCC Countries Multi-channel I/O Expander Revenue Growth 2021-2026 ($ millions)
Figure 90. Manufacturing Cost Structure Analysis of Multi-channel I/O Expander in 2026
Figure 91. Manufacturing Process Analysis of Multi-channel I/O Expander
Figure 92. Industry Chain Structure of Multi-channel I/O Expander
Figure 93. Channels of Distribution
Figure 94. Global Multi-channel I/O Expander Sales Market Forecast by Region (2027-2032)
Figure 95. Global Multi-channel I/O Expander Revenue Market Share Forecast by Region (2027-2032)
Figure 96. Global Multi-channel I/O Expander Sales Market Share Forecast by Type (2027-2032)
Figure 97. Global Multi-channel I/O Expander Revenue Market Share Forecast by Type (2027-2032)
Figure 98. Global Multi-channel I/O Expander Sales Market Share Forecast by Application (2027-2032)
Figure 99. Global Multi-channel I/O Expander Revenue Market Share Forecast by Application (2027-2032)

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