

# Global Expansion Box PC Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Expansion Box PC market size is expected to reach \$ 474 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032). Expansion box PCs are computers with PCIe/PCI expansion slots designed to meet the needs of various industries to expand and customize PCs to meet the unique requirements of their specific applications.

Global production of expansion box PC is projected to reach 173,000 units in 2025, with an average price of \$1,863 per unit. Gross margins typically range from 30% to 45%. The upstream supply chain of the Expansion Box PC mainly consists of processors and chipsets, industrial-grade motherboard components, memory and storage, expansion backplanes and high-speed interface devices, chassis and heat dissipation materials, and power modules. Upstream demand emphasizes long-term supply, stability, and wide-temperature reliability, with costs significantly influenced by the prices of high-end CPUs and industrial-grade components. Downstream is the core of value realization, with demand concentrated in areas such as industrial automation and machine vision, semiconductor and electronic manufacturing, rail transportation and energy, power and petrochemical control, military and scientific research testing, and medical imaging and AI edge computing. Industrial automation and machine vision have extremely high requirements for multi-card expansion, real-time performance, and stable operation. The Expansion Box PC, through PCIe expansion of GPUs, acquisition cards, and motion control cards, becomes a key computing platform for complex production lines and inspection systems. Semiconductor and electronic manufacturing focuses on high-speed data acquisition and parallel computing capabilities for AOI, ATE, and equipment control. The energy and transportation industries value long-term reliable operation and redundant expansion capabilities for monitoring, scheduling, and edge computing. AI and medical imaging scenarios drive the demand for high-performance expansion, making GPUs and high-speed interconnects key considerations in procurement

decisions. Downstream users are increasingly focused on system compatibility, scalability flexibility, lifecycle support, and on-site service capabilities, making the downstream sector a decisive force for industry growth.

Industry development trends are characterized by high-bandwidth expansion, modular design, and a shift towards AI edge computing. Support for PCIe Gen4 and Gen5, GPUs, and accelerator cards continues to improve, with thermal management and power consumption becoming core competitive advantages. Driving factors include industrial digitalization and intelligent manufacturing upgrades, rapid deployment of machine vision and AI inference at the edge, accelerated localization of semiconductors and high-end equipment, and rising customer demand for customizable computing platforms. Hindering factors primarily include fluctuations in the supply of high-performance CPUs and GPUs, high overall system costs, increased compatibility complexity between different expansion cards and operating systems, long delivery cycles in project-based markets, and stringent certification and reliability verification requirements in some industries, impacting the speed of scaling.

This report studies the global Expansion Box PC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Expansion Box PC 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 Expansion Box PC that contribute to its increasing demand across many markets.

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

Global Expansion Box PC total production and demand, 2021-2032, (Units)

Global Expansion Box PC total production value, 2021-2032, (USD Million)

Global Expansion Box PC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Expansion Box PC consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Expansion Box PC domestic production, consumption, key domestic manufacturers and share

Global Expansion Box PC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Expansion Box PC production by Type of CPU, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Expansion Box PC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Expansion Box PC market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Advantech, Kontron, Siemens, Beckhoff Automation, Schneider Electric, Neousys Technology, AAEON Technology, IEI Integration Corp., ADLINK Technology, APLEX Technology, 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 Expansion Box PC market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type of CPU, 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 Expansion Box PC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Expansion Box PC Market, Segmentation by Type of CPU:

X86 Architecture

ARM Architecture

## Heterogeneous Computing Platform

### Global Expansion Box PC Market, Segmentation by Expansion Type:

PCIe Expansion Type

PCI+PCIe Hybrid Type

Thunderbolt Expansion Type

Dedicated Interface Expansion Type

### Global Expansion Box PC Market, Segmentation by Cooling Method:

Fanless Passive Cooling

Fan Active Cooling

Heat Pipe/Vapor Chamber Cooling

Hybrid Cooling

### Global Expansion Box PC Market, Segmentation by Application:

Industrial Automation

Military and Aerospace

Medical Imaging Equipment

AI Edge Computing

Scientific Research and Testing

### **Companies Profiled:**

Advantech

Kontron

Siemens

Beckhoff Automation

Schneider Electric

Neosys Technology

AAEON Technology

IEI Integration Corp.

ADLINK Technology

APLEX Technology

Vecow Co., Ltd.

Cincoze Co., Ltd.

Taicenn Technology

Intercomp S.p.A.

Mainkco IPC

Avnet Embedded

Valano IPC

IESP

### **Key Questions Answered:**

1. How big is the global Expansion Box PC market?

2. What is the demand of the global Expansion Box PC market?
3. What is the year over year growth of the global Expansion Box PC market?
4. What is the production and production value of the global Expansion Box PC market?
5. Who are the key producers in the global Expansion Box PC market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Expansion Box PC Production Value by Manufacturer (2021-2026)

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

4.4.2 United States Based Manufacturers Expansion Box PC Production Value (2021-2026)

4.4.3 United States Based Manufacturers Expansion Box PC Production (2021-2026)

4.5 China Based Expansion Box PC Manufacturers and Market Share

4.5.1 China Based Expansion Box PC Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Expansion Box PC Production Value (2021-2026)

4.5.3 China Based Manufacturers Expansion Box PC Production (2021-2026)

4.6 Rest of World Based Expansion Box PC Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Expansion Box PC Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Expansion Box PC Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Expansion Box PC Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE OF CPU**

5.1 World Expansion Box PC Market Size Overview by Type of CPU: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type of CPU

5.2.1 X86 Architecture

5.2.2 ARM Architecture

5.2.3 Heterogeneous Computing Platform

5.3 Market Segment by Type of CPU

5.3.1 World Expansion Box PC Production by Type of CPU (2021-2032)

5.3.2 World Expansion Box PC Production Value by Type of CPU (2021-2032)

5.3.3 World Expansion Box PC Average Price by Type of CPU (2021-2032)

## **6 MARKET ANALYSIS BY EXPANSION TYPE**

6.1 World Expansion Box PC Market Size Overview by Expansion Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Expansion Type

6.2.1 PCIe Expansion Type

6.2.2 PCI+PCIe Hybrid Type

6.2.3 Thunderbolt Expansion Type

6.2.4 Dedicated Interface Expansion Type

6.3 Market Segment by Expansion Type

- 6.3.1 World Expansion Box PC Production by Expansion Type (2021-2032)
- 6.3.2 World Expansion Box PC Production Value by Expansion Type (2021-2032)
- 6.3.3 World Expansion Box PC Average Price by Expansion Type (2021-2032)

## **7 MARKET ANALYSIS BY COOLING METHOD**

- 7.1 World Expansion Box PC Market Size Overview by Cooling Method: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Cooling Method
  - 7.2.1 Fanless Passive Cooling
  - 7.2.2 Fan Active Cooling
  - 7.2.3 Heat Pipe/Vapor Chamber Cooling
  - 7.2.4 Hybrid Cooling
- 7.3 Market Segment by Cooling Method
  - 7.3.1 World Expansion Box PC Production by Cooling Method (2021-2032)
  - 7.3.2 World Expansion Box PC Production Value by Cooling Method (2021-2032)
  - 7.3.3 World Expansion Box PC Average Price by Cooling Method (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

- 8.1 World Expansion Box PC Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
  - 8.2.1 Industrial Automation
  - 8.2.2 Military and Aerospace
  - 8.2.3 Medical Imaging Equipment
  - 8.2.4 AI Edge Computing
  - 8.2.5 Scientific Research and Testing
- 8.3 Market Segment by Application
  - 8.3.1 World Expansion Box PC Production by Application (2021-2032)
  - 8.3.2 World Expansion Box PC Production Value by Application (2021-2032)
  - 8.3.3 World Expansion Box PC Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

- 9.1 Advantech
  - 9.1.1 Advantech Details
  - 9.1.2 Advantech Major Business
  - 9.1.3 Advantech Expansion Box PC Product and Services

9.1.4 Advantech Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Advantech Recent Developments/Updates

9.1.6 Advantech Competitive Strengths & Weaknesses

9.2 Kontron

9.2.1 Kontron Details

9.2.2 Kontron Major Business

9.2.3 Kontron Expansion Box PC Product and Services

9.2.4 Kontron Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Kontron Recent Developments/Updates

9.2.6 Kontron Competitive Strengths & Weaknesses

9.3 Siemens

9.3.1 Siemens Details

9.3.2 Siemens Major Business

9.3.3 Siemens Expansion Box PC Product and Services

9.3.4 Siemens Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Siemens Recent Developments/Updates

9.3.6 Siemens Competitive Strengths & Weaknesses

9.4 Beckhoff Automation

9.4.1 Beckhoff Automation Details

9.4.2 Beckhoff Automation Major Business

9.4.3 Beckhoff Automation Expansion Box PC Product and Services

9.4.4 Beckhoff Automation Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Beckhoff Automation Recent Developments/Updates

9.4.6 Beckhoff Automation Competitive Strengths & Weaknesses

9.5 Schneider Electric

9.5.1 Schneider Electric Details

9.5.2 Schneider Electric Major Business

9.5.3 Schneider Electric Expansion Box PC Product and Services

9.5.4 Schneider Electric Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Schneider Electric Recent Developments/Updates

9.5.6 Schneider Electric Competitive Strengths & Weaknesses

9.6 Neosys Technology

9.6.1 Neosys Technology Details

9.6.2 Neosys Technology Major Business

- 9.6.3 Neusys Technology Expansion Box PC Product and Services
- 9.6.4 Neusys Technology Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Neusys Technology Recent Developments/Updates
- 9.6.6 Neusys Technology Competitive Strengths & Weaknesses
- 9.7 AAEON Technology
  - 9.7.1 AAEON Technology Details
  - 9.7.2 AAEON Technology Major Business
  - 9.7.3 AAEON Technology Expansion Box PC Product and Services
  - 9.7.4 AAEON Technology Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 AAEON Technology Recent Developments/Updates
  - 9.7.6 AAEON Technology Competitive Strengths & Weaknesses
- 9.8 IEI Integration Corp.
  - 9.8.1 IEI Integration Corp. Details
  - 9.8.2 IEI Integration Corp. Major Business
  - 9.8.3 IEI Integration Corp. Expansion Box PC Product and Services
  - 9.8.4 IEI Integration Corp. Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 IEI Integration Corp. Recent Developments/Updates
  - 9.8.6 IEI Integration Corp. Competitive Strengths & Weaknesses
- 9.9 ADLINK Technology
  - 9.9.1 ADLINK Technology Details
  - 9.9.2 ADLINK Technology Major Business
  - 9.9.3 ADLINK Technology Expansion Box PC Product and Services
  - 9.9.4 ADLINK Technology Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 ADLINK Technology Recent Developments/Updates
  - 9.9.6 ADLINK Technology Competitive Strengths & Weaknesses
- 9.10 APLEX Technology
  - 9.10.1 APLEX Technology Details
  - 9.10.2 APLEX Technology Major Business
  - 9.10.3 APLEX Technology Expansion Box PC Product and Services
  - 9.10.4 APLEX Technology Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 APLEX Technology Recent Developments/Updates
  - 9.10.6 APLEX Technology Competitive Strengths & Weaknesses
- 9.11 Vecow Co., Ltd.
  - 9.11.1 Vecow Co., Ltd. Details

- 9.11.2 Vecow Co., Ltd. Major Business
- 9.11.3 Vecow Co., Ltd. Expansion Box PC Product and Services
- 9.11.4 Vecow Co., Ltd. Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Vecow Co., Ltd. Recent Developments/Updates
- 9.11.6 Vecow Co., Ltd. Competitive Strengths & Weaknesses
- 9.12 Cincoze Co., Ltd.
  - 9.12.1 Cincoze Co., Ltd. Details
  - 9.12.2 Cincoze Co., Ltd. Major Business
  - 9.12.3 Cincoze Co., Ltd. Expansion Box PC Product and Services
  - 9.12.4 Cincoze Co., Ltd. Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Cincoze Co., Ltd. Recent Developments/Updates
  - 9.12.6 Cincoze Co., Ltd. Competitive Strengths & Weaknesses
- 9.13 Taicenn Technology
  - 9.13.1 Taicenn Technology Details
  - 9.13.2 Taicenn Technology Major Business
  - 9.13.3 Taicenn Technology Expansion Box PC Product and Services
  - 9.13.4 Taicenn Technology Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Taicenn Technology Recent Developments/Updates
  - 9.13.6 Taicenn Technology Competitive Strengths & Weaknesses
- 9.14 Intercomp S.p.A.
  - 9.14.1 Intercomp S.p.A. Details
  - 9.14.2 Intercomp S.p.A. Major Business
  - 9.14.3 Intercomp S.p.A. Expansion Box PC Product and Services
  - 9.14.4 Intercomp S.p.A. Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Intercomp S.p.A. Recent Developments/Updates
  - 9.14.6 Intercomp S.p.A. Competitive Strengths & Weaknesses
- 9.15 Mainkco IPC
  - 9.15.1 Mainkco IPC Details
  - 9.15.2 Mainkco IPC Major Business
  - 9.15.3 Mainkco IPC Expansion Box PC Product and Services
  - 9.15.4 Mainkco IPC Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 Mainkco IPC Recent Developments/Updates
  - 9.15.6 Mainkco IPC Competitive Strengths & Weaknesses
- 9.16 Avnet Embedded

- 9.16.1 Avnet Embedded Details
- 9.16.2 Avnet Embedded Major Business
- 9.16.3 Avnet Embedded Expansion Box PC Product and Services
- 9.16.4 Avnet Embedded Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Avnet Embedded Recent Developments/Updates
- 9.16.6 Avnet Embedded Competitive Strengths & Weaknesses
- 9.17 Valano IPC
  - 9.17.1 Valano IPC Details
  - 9.17.2 Valano IPC Major Business
  - 9.17.3 Valano IPC Expansion Box PC Product and Services
  - 9.17.4 Valano IPC Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 Valano IPC Recent Developments/Updates
  - 9.17.6 Valano IPC Competitive Strengths & Weaknesses
- 9.18 IESP
  - 9.18.1 IESP Details
  - 9.18.2 IESP Major Business
  - 9.18.3 IESP Expansion Box PC Product and Services
  - 9.18.4 IESP Expansion Box PC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.18.5 IESP Recent Developments/Updates
  - 9.18.6 IESP Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Expansion Box PC Industry Chain
- 10.2 Expansion Box PC Upstream Analysis
  - 10.2.1 Expansion Box PC Core Raw Materials
  - 10.2.2 Main Manufacturers of Expansion Box PC Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Expansion Box PC Production Mode
- 10.6 Expansion Box PC Procurement Model
- 10.7 Expansion Box PC Industry Sales Model and Sales Channels
  - 10.7.1 Expansion Box PC Sales Model
  - 10.7.2 Expansion Box PC 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 Expansion Box PC Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Expansion Box PC Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Expansion Box PC Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Expansion Box PC Production Value Market Share by Region (2021-2026)
- Table 5. World Expansion Box PC Production Value Market Share by Region (2027-2032)
- Table 6. World Expansion Box PC Production by Region (2021-2026) & (Units)
- Table 7. World Expansion Box PC Production by Region (2027-2032) & (Units)
- Table 8. World Expansion Box PC Production Market Share by Region (2021-2026)
- Table 9. World Expansion Box PC Production Market Share by Region (2027-2032)
- Table 10. World Expansion Box PC Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Expansion Box PC Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Expansion Box PC Major Market Trends
- Table 13. World Expansion Box PC Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
- Table 14. World Expansion Box PC Consumption by Region (2021-2026) & (Units)
- Table 15. World Expansion Box PC Consumption Forecast by Region (2027-2032) & (Units)
- Table 16. World Expansion Box PC Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Expansion Box PC Producers in 2025
- Table 18. World Expansion Box PC Production by Manufacturer (2021-2026) & (Units)
- Table 19. Production Market Share of Key Expansion Box PC Producers in 2025
- Table 20. World Expansion Box PC Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Expansion Box PC Company Evaluation Quadrant
- Table 22. World Expansion Box PC Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Expansion Box PC Production Site of Key Manufacturer
- Table 24. Expansion Box PC Market: Company Product Type Footprint
- Table 25. Expansion Box PC Market: Company Product Application Footprint

Table 26. Expansion Box PC Competitive Factors

Table 27. Expansion Box PC New Entrant and Capacity Expansion Plans

Table 28. Expansion Box PC Mergers & Acquisitions Activity

Table 29. United States VS China Expansion Box PC Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Expansion Box PC Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Expansion Box PC Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Expansion Box PC Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Expansion Box PC Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Expansion Box PC Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Expansion Box PC Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Expansion Box PC Production Market Share (2021-2026)

Table 37. China Based Expansion Box PC Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Expansion Box PC Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Expansion Box PC Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Expansion Box PC Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Expansion Box PC Production Market Share (2021-2026)

Table 42. Rest of World Based Expansion Box PC Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Expansion Box PC Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Expansion Box PC Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Expansion Box PC Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Expansion Box PC Production Market Share (2021-2026)

Table 47. World Expansion Box PC Production Value by Type of CPU, (USD Million), 2021 & 2025 & 2032

Table 48. World Expansion Box PC Production by Type of CPU (2021-2026) & (Units)

Table 49. World Expansion Box PC Production by Type of CPU (2027-2032) & (Units)

Table 50. World Expansion Box PC Production Value by Type of CPU (2021-2026) & (USD Million)

Table 51. World Expansion Box PC Production Value by Type of CPU (2027-2032) & (USD Million)

Table 52. World Expansion Box PC Average Price by Type of CPU (2021-2026) & (US\$/Unit)

Table 53. World Expansion Box PC Average Price by Type of CPU (2027-2032) & (US\$/Unit)

Table 54. World Expansion Box PC Production Value by Expansion Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Expansion Box PC Production by Expansion Type (2021-2026) & (Units)

Table 56. World Expansion Box PC Production by Expansion Type (2027-2032) & (Units)

Table 57. World Expansion Box PC Production Value by Expansion Type (2021-2026) & (USD Million)

Table 58. World Expansion Box PC Production Value by Expansion Type (2027-2032) & (USD Million)

Table 59. World Expansion Box PC Average Price by Expansion Type (2021-2026) & (US\$/Unit)

Table 60. World Expansion Box PC Average Price by Expansion Type (2027-2032) & (US\$/Unit)

Table 61. World Expansion Box PC Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Expansion Box PC Production by Cooling Method (2021-2026) & (Units)

Table 63. World Expansion Box PC Production by Cooling Method (2027-2032) & (Units)

Table 64. World Expansion Box PC Production Value by Cooling Method (2021-2026) & (USD Million)

Table 65. World Expansion Box PC Production Value by Cooling Method (2027-2032) & (USD Million)

Table 66. World Expansion Box PC Average Price by Cooling Method (2021-2026) & (US\$/Unit)

Table 67. World Expansion Box PC Average Price by Cooling Method (2027-2032) &

(US\$/Unit)

Table 68. World Expansion Box PC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Expansion Box PC Production by Application (2021-2026) & (Units)

Table 70. World Expansion Box PC Production by Application (2027-2032) & (Units)

Table 71. World Expansion Box PC Production Value by Application (2021-2026) & (USD Million)

Table 72. World Expansion Box PC Production Value by Application (2027-2032) & (USD Million)

Table 73. World Expansion Box PC Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Expansion Box PC Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Advantech Basic Information, Manufacturing Base and Competitors

Table 76. Advantech Major Business

Table 77. Advantech Expansion Box PC Product and Services

Table 78. Advantech Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Advantech Recent Developments/Updates

Table 80. Advantech Competitive Strengths & Weaknesses

Table 81. Kontron Basic Information, Manufacturing Base and Competitors

Table 82. Kontron Major Business

Table 83. Kontron Expansion Box PC Product and Services

Table 84. Kontron Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Kontron Recent Developments/Updates

Table 86. Kontron Competitive Strengths & Weaknesses

Table 87. Siemens Basic Information, Manufacturing Base and Competitors

Table 88. Siemens Major Business

Table 89. Siemens Expansion Box PC Product and Services

Table 90. Siemens Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Siemens Recent Developments/Updates

Table 92. Siemens Competitive Strengths & Weaknesses

Table 93. Beckhoff Automation Basic Information, Manufacturing Base and Competitors

Table 94. Beckhoff Automation Major Business

Table 95. Beckhoff Automation Expansion Box PC Product and Services

Table 96. Beckhoff Automation Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 97. Beckhoff Automation Recent Developments/Updates
- Table 98. Beckhoff Automation Competitive Strengths & Weaknesses
- Table 99. Schneider Electric Basic Information, Manufacturing Base and Competitors
- Table 100. Schneider Electric Major Business
- Table 101. Schneider Electric Expansion Box PC Product and Services
- Table 102. Schneider Electric Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Schneider Electric Recent Developments/Updates
- Table 104. Schneider Electric Competitive Strengths & Weaknesses
- Table 105. Neosys Technology Basic Information, Manufacturing Base and Competitors
- Table 106. Neosys Technology Major Business
- Table 107. Neosys Technology Expansion Box PC Product and Services
- Table 108. Neosys Technology Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Neosys Technology Recent Developments/Updates
- Table 110. Neosys Technology Competitive Strengths & Weaknesses
- Table 111. AAEON Technology Basic Information, Manufacturing Base and Competitors
- Table 112. AAEON Technology Major Business
- Table 113. AAEON Technology Expansion Box PC Product and Services
- Table 114. AAEON Technology Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. AAEON Technology Recent Developments/Updates
- Table 116. AAEON Technology Competitive Strengths & Weaknesses
- Table 117. IEI Integration Corp. Basic Information, Manufacturing Base and Competitors
- Table 118. IEI Integration Corp. Major Business
- Table 119. IEI Integration Corp. Expansion Box PC Product and Services
- Table 120. IEI Integration Corp. Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. IEI Integration Corp. Recent Developments/Updates
- Table 122. IEI Integration Corp. Competitive Strengths & Weaknesses
- Table 123. ADLINK Technology Basic Information, Manufacturing Base and Competitors
- Table 124. ADLINK Technology Major Business
- Table 125. ADLINK Technology Expansion Box PC Product and Services
- Table 126. ADLINK Technology Expansion Box PC Production (Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. ADLINK Technology Recent Developments/Updates

Table 128. ADLINK Technology Competitive Strengths & Weaknesses

Table 129. APLEX Technology Basic Information, Manufacturing Base and Competitors

Table 130. APLEX Technology Major Business

Table 131. APLEX Technology Expansion Box PC Product and Services

Table 132. APLEX Technology Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. APLEX Technology Recent Developments/Updates

Table 134. APLEX Technology Competitive Strengths & Weaknesses

Table 135. Vecow Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Vecow Co., Ltd. Major Business

Table 137. Vecow Co., Ltd. Expansion Box PC Product and Services

Table 138. Vecow Co., Ltd. Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Vecow Co., Ltd. Recent Developments/Updates

Table 140. Vecow Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Cincoze Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 142. Cincoze Co., Ltd. Major Business

Table 143. Cincoze Co., Ltd. Expansion Box PC Product and Services

Table 144. Cincoze Co., Ltd. Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Cincoze Co., Ltd. Recent Developments/Updates

Table 146. Cincoze Co., Ltd. Competitive Strengths & Weaknesses

Table 147. Taicenn Technology Basic Information, Manufacturing Base and Competitors

Table 148. Taicenn Technology Major Business

Table 149. Taicenn Technology Expansion Box PC Product and Services

Table 150. Taicenn Technology Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Taicenn Technology Recent Developments/Updates

Table 152. Taicenn Technology Competitive Strengths & Weaknesses

Table 153. Intercomp S.p.A. Basic Information, Manufacturing Base and Competitors

Table 154. Intercomp S.p.A. Major Business

Table 155. Intercomp S.p.A. Expansion Box PC Product and Services

Table 156. Intercomp S.p.A. Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Intercomp S.p.A. Recent Developments/Updates

- Table 158. Intercomp S.p.A. Competitive Strengths & Weaknesses
- Table 159. Mainkco IPC Basic Information, Manufacturing Base and Competitors
- Table 160. Mainkco IPC Major Business
- Table 161. Mainkco IPC Expansion Box PC Product and Services
- Table 162. Mainkco IPC Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Mainkco IPC Recent Developments/Updates
- Table 164. Mainkco IPC Competitive Strengths & Weaknesses
- Table 165. Avnet Embedded Basic Information, Manufacturing Base and Competitors
- Table 166. Avnet Embedded Major Business
- Table 167. Avnet Embedded Expansion Box PC Product and Services
- Table 168. Avnet Embedded Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Avnet Embedded Recent Developments/Updates
- Table 170. Avnet Embedded Competitive Strengths & Weaknesses
- Table 171. Valano IPC Basic Information, Manufacturing Base and Competitors
- Table 172. Valano IPC Major Business
- Table 173. Valano IPC Expansion Box PC Product and Services
- Table 174. Valano IPC Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Valano IPC Recent Developments/Updates
- Table 176. Valano IPC Competitive Strengths & Weaknesses
- Table 177. IESP Basic Information, Manufacturing Base and Competitors
- Table 178. IESP Major Business
- Table 179. IESP Expansion Box PC Product and Services
- Table 180. IESP Expansion Box PC Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. IESP Recent Developments/Updates
- Table 182. IESP Competitive Strengths & Weaknesses
- Table 183. Global Key Players of Expansion Box PC Upstream (Raw Materials)
- Table 184. Global Expansion Box PC Typical Customers
- Table 185. Expansion Box PC Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Expansion Box PC Picture

Figure 2. World Expansion Box PC Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Expansion Box PC Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Expansion Box PC Production (2021-2032) & (Units)

Figure 5. World Expansion Box PC Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Expansion Box PC Production Value Market Share by Region (2021-2032)

Figure 7. World Expansion Box PC Production Market Share by Region (2021-2032)

Figure 8. North America Expansion Box PC Production (2021-2032) & (Units)

Figure 9. Europe Expansion Box PC Production (2021-2032) & (Units)

Figure 10. China Expansion Box PC Production (2021-2032) & (Units)

Figure 11. Japan Expansion Box PC Production (2021-2032) & (Units)

Figure 12. Expansion Box PC Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Expansion Box PC Consumption (2021-2032) & (Units)

Figure 15. World Expansion Box PC Consumption Market Share by Region (2021-2032)

Figure 16. United States Expansion Box PC Consumption (2021-2032) & (Units)

Figure 17. China Expansion Box PC Consumption (2021-2032) & (Units)

Figure 18. Europe Expansion Box PC Consumption (2021-2032) & (Units)

Figure 19. Japan Expansion Box PC Consumption (2021-2032) & (Units)

Figure 20. South Korea Expansion Box PC Consumption (2021-2032) & (Units)

Figure 21. ASEAN Expansion Box PC Consumption (2021-2032) & (Units)

Figure 22. India Expansion Box PC Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Expansion Box PC by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Expansion Box PC Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Expansion Box PC Markets in 2025

Figure 26. United States VS China: Expansion Box PC Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Expansion Box PC Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Expansion Box PC Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Expansion Box PC Production Market Share 2025

Figure 30. China Based Manufacturers Expansion Box PC Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Expansion Box PC Production Market Share 2025

Figure 32. World Expansion Box PC Production Value by Type of CPU, (USD Million), 2021 & 2025 & 2032

Figure 33. World Expansion Box PC Production Value Market Share by Type of CPU in 2025

Figure 34. X86 Architecture

Figure 35. ARM Architecture

Figure 36. Heterogeneous Computing Platform

Figure 37. World Expansion Box PC Production Market Share by Type of CPU (2021-2032)

Figure 38. World Expansion Box PC Production Value Market Share by Type of CPU (2021-2032)

Figure 39. World Expansion Box PC Average Price by Type of CPU (2021-2032) & (US\$/Unit)

Figure 40. World Expansion Box PC Production Value by Expansion Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World Expansion Box PC Production Value Market Share by Expansion Type in 2025

Figure 42. PCIe Expansion Type

Figure 43. PCI+PCIe Hybrid Type

Figure 44. Thunderbolt Expansion Type

Figure 45. Dedicated Interface Expansion Type

Figure 46. World Expansion Box PC Production Market Share by Expansion Type (2021-2032)

Figure 47. World Expansion Box PC Production Value Market Share by Expansion Type (2021-2032)

Figure 48. World Expansion Box PC Average Price by Expansion Type (2021-2032) & (US\$/Unit)

Figure 49. World Expansion Box PC Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Figure 50. World Expansion Box PC Production Value Market Share by Cooling Method in 2025

Figure 51. Fanless Passive Cooling

Figure 52. Fan Active Cooling

Figure 53. Heat Pipe/Vapor Chamber Cooling

Figure 54. Hybrid Cooling

Figure 55. World Expansion Box PC Production Market Share by Cooling Method (2021-2032)

Figure 56. World Expansion Box PC Production Value Market Share by Cooling Method (2021-2032)

Figure 57. World Expansion Box PC Average Price by Cooling Method (2021-2032) & (US\$/Unit)

Figure 58. World Expansion Box PC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Expansion Box PC Production Value Market Share by Application in 2025

Figure 60. Industrial Automation

Figure 61. Military and Aerospace

Figure 62. Medical Imaging Equipment

Figure 63. AI Edge Computing

Figure 64. Scientific Research and Testing

Figure 65. World Expansion Box PC Production Market Share by Application (2021-2032)

Figure 66. World Expansion Box PC Production Value Market Share by Application (2021-2032)

Figure 67. World Expansion Box PC Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Expansion Box PC Industry Chain

Figure 69. Expansion Box PC Procurement Model

Figure 70. Expansion Box PC Sales Model

Figure 71. Expansion Box PC Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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