

Global Industrial PC Motherboard Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Industrial PC Motherboard market size is expected to reach \$ 6740 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

An Industrial PC Motherboard (IPC Motherboard) is a ruggedized computer mainboard specifically designed for industrial environments and long-term stable operation. It integrates the CPU, chipset, memory interfaces, storage interfaces, expansion slots, power management, and industrial I/O interfaces to support industrial automation, machine control, robotics, edge computing, transportation, medical equipment, and smart manufacturing systems. Compared with consumer PC motherboards, Industrial PC Motherboards are built with enhanced durability, wider operating temperature ranges, higher vibration resistance, longer product life cycles, and better compatibility with industrial communication protocols and expansion modules. Common architectures include x86 and ARM-based industrial boards. In 2025, global Industrial PC Motherboard production reached approximately 10.16 million units, with an average global market price of around US\$385 per unit. Annual production capacity is 13.40 million units. Gross Profit Margin: 31.5%. The industrial PC motherboard industry chain is structured across three main layers: upstream component suppliers, midstream motherboard manufacturers, and downstream application integrators. Upstream includes semiconductor chips (CPU, chipset), memory modules, PCB substrates, power ICs, and connectors, mainly supplied by global players such as Intel, AMD, Micron, Samsung, and specialized industrial-grade component vendors. Midstream consists of manufacturers like Advantech, Kontron, AAEON, and DFI, which design and assemble industrial-grade motherboards with long lifecycle support and enhanced reliability. Downstream demand comes from industrial automation, robotics, machine vision, edge computing, transportation systems, and medical devices, where long-term stability and

rugged performance are critical. Industrial PC motherboards are evolving from traditional computing control boards into core infrastructure components of intelligent industrial systems. The main trend is integration: higher computing density, more AI acceleration capability, and richer I/O interfaces within smaller form factors. Demand is increasingly driven by edge AI, robotics, and smart manufacturing, where real-time processing and system reliability are more important than raw cost efficiency.

This report studies the global Industrial PC Motherboard production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Industrial PC Motherboard total production and demand, 2021-2032, (Units)

Global Industrial PC Motherboard total production value, 2021-2032, (USD Million)

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

Global Industrial PC Motherboard consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Industrial PC Motherboard domestic production, consumption, key domestic manufacturers and share

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

Global Industrial PC Motherboard production by Form Factor, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Industrial PC Motherboard 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, Supermicro, AAEON Technology, ADLINK Technology, IEI Integration, DFI, Congatec, Portwell, Axiomtek, 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 Industrial PC Motherboard 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 Form Factor, 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 Industrial PC Motherboard Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial PC Motherboard Market, Segmentation by Form Factor:

ATX Industrial Motherboard

Micro-ATX Industrial Motherboard

Mini-ITX Industrial Motherboard

Pico-ITX Industrial Motherboard

3.5-inch SBC Industrial Motherboard

EPIC Embedded Motherboard

COM Express Carrier Board

Backplane CPU Board (PICMG)

Global Industrial PC Motherboard Market, Segmentation by Processor Architecture:

x86 Industrial PC Motherboard

ARM Industrial Motherboard

RISC-V Industrial Motherboard

Global Industrial PC Motherboard Market, Segmentation by Operating Temperature Range:

0°C~60°C

-20°C~70°C

-40°C~85°C

Global Industrial PC Motherboard Market, Segmentation by Application:

Industrial Automation

Robotics

Transportation

Energy & Utilities

Medical

Others

Companies Profiled:

Advantech

Kontron

Supermicro

AAEON Technology

ADLINK Technology

IEI Integration

DFI

Congatec

Portwell

Axiomtek

Mitsubishi Electric

Fujitsu

Contec

Beckhoff Automation

Siemens

NORCO Intelligent Technology

Seavo Technology

Forlinx Embedded Technology

Fodenn Technology

EVOC Intelligent Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

2021-2026

4.4.1 United States Based Industrial PC Motherboard Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Industrial PC Motherboard Production Value (2021-2026)

4.4.3 United States Based Manufacturers Industrial PC Motherboard Production (2021-2026)

4.5 China Based Industrial PC Motherboard Manufacturers and Market Share

4.5.1 China Based Industrial PC Motherboard Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Industrial PC Motherboard Production Value (2021-2026)

4.5.3 China Based Manufacturers Industrial PC Motherboard Production (2021-2026)

4.6 Rest of World Based Industrial PC Motherboard Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Industrial PC Motherboard Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Industrial PC Motherboard Production (2021-2026)

5 MARKET ANALYSIS BY FORM FACTOR

5.1 World Industrial PC Motherboard Market Size Overview by Form Factor: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Form Factor

5.2.1 ATX Industrial Motherboard

5.2.2 Micro-ATX Industrial Motherboard

5.2.3 Mini-ITX Industrial Motherboard

5.2.4 Pico-ITX Industrial Motherboard

5.2.5 3.5-inch SBC Industrial Motherboard

5.2.6 EPIC Embedded Motherboard

5.2.7 COM Express Carrier Board

5.2.8 Backplane CPU Board (PICMG)

5.3 Market Segment by Form Factor

5.3.1 World Industrial PC Motherboard Production by Form Factor (2021-2032)

5.3.2 World Industrial PC Motherboard Production Value by Form Factor (2021-2032)

5.3.3 World Industrial PC Motherboard Average Price by Form Factor (2021-2032)

6 MARKET ANALYSIS BY PROCESSOR ARCHITECTURE

6.1 World Industrial PC Motherboard Market Size Overview by Processor Architecture:
2021 VS 2025 VS 2032

6.2 Segment Introduction by Processor Architecture

6.2.1 x86 Industrial PC Motherboard

6.2.2 ARM Industrial Motherboard

6.2.3 RISC-V Industrial Motherboard

6.3 Market Segment by Processor Architecture

6.3.1 World Industrial PC Motherboard Production by Processor Architecture
(2021-2032)

6.3.2 World Industrial PC Motherboard Production Value by Processor Architecture
(2021-2032)

6.3.3 World Industrial PC Motherboard Average Price by Processor Architecture
(2021-2032)

7 MARKET ANALYSIS BY OPERATING TEMPERATURE RANGE

7.1 World Industrial PC Motherboard Market Size Overview by Operating Temperature
Range: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Operating Temperature Range

7.2.1 -10°C~60°C?

7.2.2 -20°C~70°C?

7.2.3 -40°C~85°C?

7.3 Market Segment by Operating Temperature Range

7.3.1 World Industrial PC Motherboard Production by Operating Temperature Range
(2021-2032)

7.3.2 World Industrial PC Motherboard Production Value by Operating Temperature
Range (2021-2032)

7.3.3 World Industrial PC Motherboard Average Price by Operating Temperature Range
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Industrial PC Motherboard Market Size Overview by Application: 2021 VS
2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Automation

8.2.2 Robotics

8.2.3 Transportation

8.2.4 Energy & Utilities

8.2.5 Medical

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Industrial PC Motherboard Production by Application (2021-2032)

8.3.2 World Industrial PC Motherboard Production Value by Application (2021-2032)

8.3.3 World Industrial PC Motherboard 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 Industrial PC Motherboard Product and Services

9.1.4 Advantech Industrial PC Motherboard 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 Industrial PC Motherboard Product and Services

9.2.4 Kontron Industrial PC Motherboard 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 Supermicro

9.3.1 Supermicro Details

9.3.2 Supermicro Major Business

9.3.3 Supermicro Industrial PC Motherboard Product and Services

9.3.4 Supermicro Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Supermicro Recent Developments/Updates

9.3.6 Supermicro Competitive Strengths & Weaknesses

9.4 AAEON Technology

9.4.1 AAEON Technology Details

9.4.2 AAEON Technology Major Business

- 9.4.3 AAEON Technology Industrial PC Motherboard Product and Services
- 9.4.4 AAEON Technology Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 AAEON Technology Recent Developments/Updates
- 9.4.6 AAEON Technology Competitive Strengths & Weaknesses
- 9.5 ADLINK Technology
 - 9.5.1 ADLINK Technology Details
 - 9.5.2 ADLINK Technology Major Business
 - 9.5.3 ADLINK Technology Industrial PC Motherboard Product and Services
 - 9.5.4 ADLINK Technology Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 ADLINK Technology Recent Developments/Updates
 - 9.5.6 ADLINK Technology Competitive Strengths & Weaknesses
- 9.6 IEI Integration
 - 9.6.1 IEI Integration Details
 - 9.6.2 IEI Integration Major Business
 - 9.6.3 IEI Integration Industrial PC Motherboard Product and Services
 - 9.6.4 IEI Integration Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 IEI Integration Recent Developments/Updates
 - 9.6.6 IEI Integration Competitive Strengths & Weaknesses
- 9.7 DFI
 - 9.7.1 DFI Details
 - 9.7.2 DFI Major Business
 - 9.7.3 DFI Industrial PC Motherboard Product and Services
 - 9.7.4 DFI Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 DFI Recent Developments/Updates
 - 9.7.6 DFI Competitive Strengths & Weaknesses
- 9.8 Congatec
 - 9.8.1 Congatec Details
 - 9.8.2 Congatec Major Business
 - 9.8.3 Congatec Industrial PC Motherboard Product and Services
 - 9.8.4 Congatec Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Congatec Recent Developments/Updates
 - 9.8.6 Congatec Competitive Strengths & Weaknesses
- 9.9 Portwell
 - 9.9.1 Portwell Details

9.9.2 Portwell Major Business

9.9.3 Portwell Industrial PC Motherboard Product and Services

9.9.4 Portwell Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Portwell Recent Developments/Updates

9.9.6 Portwell Competitive Strengths & Weaknesses

9.10 Axiomtek

9.10.1 Axiomtek Details

9.10.2 Axiomtek Major Business

9.10.3 Axiomtek Industrial PC Motherboard Product and Services

9.10.4 Axiomtek Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Axiomtek Recent Developments/Updates

9.10.6 Axiomtek Competitive Strengths & Weaknesses

9.11 Mitsubishi Electric

9.11.1 Mitsubishi Electric Details

9.11.2 Mitsubishi Electric Major Business

9.11.3 Mitsubishi Electric Industrial PC Motherboard Product and Services

9.11.4 Mitsubishi Electric Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Mitsubishi Electric Recent Developments/Updates

9.11.6 Mitsubishi Electric Competitive Strengths & Weaknesses

9.12 Fujitsu

9.12.1 Fujitsu Details

9.12.2 Fujitsu Major Business

9.12.3 Fujitsu Industrial PC Motherboard Product and Services

9.12.4 Fujitsu Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Fujitsu Recent Developments/Updates

9.12.6 Fujitsu Competitive Strengths & Weaknesses

9.13 Contec

9.13.1 Contec Details

9.13.2 Contec Major Business

9.13.3 Contec Industrial PC Motherboard Product and Services

9.13.4 Contec Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Contec Recent Developments/Updates

9.13.6 Contec Competitive Strengths & Weaknesses

9.14 Beckhoff Automation

- 9.14.1 Beckhoff Automation Details
- 9.14.2 Beckhoff Automation Major Business
- 9.14.3 Beckhoff Automation Industrial PC Motherboard Product and Services
- 9.14.4 Beckhoff Automation Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Beckhoff Automation Recent Developments/Updates
- 9.14.6 Beckhoff Automation Competitive Strengths & Weaknesses
- 9.15 Siemens
- 9.15.1 Siemens Details
- 9.15.2 Siemens Major Business
- 9.15.3 Siemens Industrial PC Motherboard Product and Services
- 9.15.4 Siemens Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 Siemens Recent Developments/Updates
- 9.15.6 Siemens Competitive Strengths & Weaknesses
- 9.16 NORCO Intelligent Technology
- 9.16.1 NORCO Intelligent Technology Details
- 9.16.2 NORCO Intelligent Technology Major Business
- 9.16.3 NORCO Intelligent Technology Industrial PC Motherboard Product and Services
- 9.16.4 NORCO Intelligent Technology Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 NORCO Intelligent Technology Recent Developments/Updates
- 9.16.6 NORCO Intelligent Technology Competitive Strengths & Weaknesses
- 9.17 Seavo Technology
- 9.17.1 Seavo Technology Details
- 9.17.2 Seavo Technology Major Business
- 9.17.3 Seavo Technology Industrial PC Motherboard Product and Services
- 9.17.4 Seavo Technology Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Seavo Technology Recent Developments/Updates
- 9.17.6 Seavo Technology Competitive Strengths & Weaknesses
- 9.18 Forlinx Embedded Technology
- 9.18.1 Forlinx Embedded Technology Details
- 9.18.2 Forlinx Embedded Technology Major Business
- 9.18.3 Forlinx Embedded Technology Industrial PC Motherboard Product and Services
- 9.18.4 Forlinx Embedded Technology Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Forlinx Embedded Technology Recent Developments/Updates
- 9.18.6 Forlinx Embedded Technology Competitive Strengths & Weaknesses

9.19 Fodenn Technology

9.19.1 Fodenn Technology Details

9.19.2 Fodenn Technology Major Business

9.19.3 Fodenn Technology Industrial PC Motherboard Product and Services

9.19.4 Fodenn Technology Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Fodenn Technology Recent Developments/Updates

9.19.6 Fodenn Technology Competitive Strengths & Weaknesses

9.20 EVOC Intelligent Technology

9.20.1 EVOC Intelligent Technology Details

9.20.2 EVOC Intelligent Technology Major Business

9.20.3 EVOC Intelligent Technology Industrial PC Motherboard Product and Services

9.20.4 EVOC Intelligent Technology Industrial PC Motherboard Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 EVOC Intelligent Technology Recent Developments/Updates

9.20.6 EVOC Intelligent Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Industrial PC Motherboard Industry Chain

10.2 Industrial PC Motherboard Upstream Analysis

10.2.1 Industrial PC Motherboard Core Raw Materials

10.2.2 Main Manufacturers of Industrial PC Motherboard Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Industrial PC Motherboard Production Mode

10.6 Industrial PC Motherboard Procurement Model

10.7 Industrial PC Motherboard Industry Sales Model and Sales Channels

10.7.1 Industrial PC Motherboard Sales Model

10.7.2 Industrial PC Motherboard 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 Industrial PC Motherboard Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Industrial PC Motherboard Production Value by Region (2021-2026) & (USD Million)

Table 3. World Industrial PC Motherboard Production Value by Region (2027-2032) & (USD Million)

Table 4. World Industrial PC Motherboard Production Value Market Share by Region (2021-2026)

Table 5. World Industrial PC Motherboard Production Value Market Share by Region (2027-2032)

Table 6. World Industrial PC Motherboard Production by Region (2021-2026) & (Units)

Table 7. World Industrial PC Motherboard Production by Region (2027-2032) & (Units)

Table 8. World Industrial PC Motherboard Production Market Share by Region (2021-2026)

Table 9. World Industrial PC Motherboard Production Market Share by Region (2027-2032)

Table 10. World Industrial PC Motherboard Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Industrial PC Motherboard Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Industrial PC Motherboard Major Market Trends

Table 13. World Industrial PC Motherboard Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Industrial PC Motherboard Consumption by Region (2021-2026) & (Units)

Table 15. World Industrial PC Motherboard Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Industrial PC Motherboard Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Industrial PC Motherboard Producers in 2025

Table 18. World Industrial PC Motherboard Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Industrial PC Motherboard Producers in 2025

Table 20. World Industrial PC Motherboard Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Industrial PC Motherboard Company Evaluation Quadrant

Table 22. World Industrial PC Motherboard Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Industrial PC Motherboard Production Site of Key Manufacturer

Table 24. Industrial PC Motherboard Market: Company Product Type Footprint

Table 25. Industrial PC Motherboard Market: Company Product Application Footprint

Table 26. Industrial PC Motherboard Competitive Factors

Table 27. Industrial PC Motherboard New Entrant and Capacity Expansion Plans

Table 28. Industrial PC Motherboard Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

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

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

Table 41. China Based Manufacturers Industrial PC Motherboard Production Market Share (2021-2026)

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

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

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

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

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

Table 47. World Industrial PC Motherboard Production Value by Form Factor, (USD Million), 2021 & 2025 & 2032

Table 48. World Industrial PC Motherboard Production by Form Factor (2021-2026) & (Units)

Table 49. World Industrial PC Motherboard Production by Form Factor (2027-2032) & (Units)

Table 50. World Industrial PC Motherboard Production Value by Form Factor (2021-2026) & (USD Million)

Table 51. World Industrial PC Motherboard Production Value by Form Factor (2027-2032) & (USD Million)

Table 52. World Industrial PC Motherboard Average Price by Form Factor (2021-2026) & (US\$/Unit)

Table 53. World Industrial PC Motherboard Average Price by Form Factor (2027-2032) & (US\$/Unit)

Table 54. World Industrial PC Motherboard Production Value by Processor Architecture, (USD Million), 2021 & 2025 & 2032

Table 55. World Industrial PC Motherboard Production by Processor Architecture (2021-2026) & (Units)

Table 56. World Industrial PC Motherboard Production by Processor Architecture (2027-2032) & (Units)

Table 57. World Industrial PC Motherboard Production Value by Processor Architecture (2021-2026) & (USD Million)

Table 58. World Industrial PC Motherboard Production Value by Processor Architecture (2027-2032) & (USD Million)

Table 59. World Industrial PC Motherboard Average Price by Processor Architecture (2021-2026) & (US\$/Unit)

Table 60. World Industrial PC Motherboard Average Price by Processor Architecture (2027-2032) & (US\$/Unit)

Table 61. World Industrial PC Motherboard Production Value by Operating Temperature Range, (USD Million), 2021 & 2025 & 2032

Table 62. World Industrial PC Motherboard Production by Operating Temperature

Range (2021-2026) & (Units)

Table 63. World Industrial PC Motherboard Production by Operating Temperature

Range (2027-2032) & (Units)

Table 64. World Industrial PC Motherboard Production Value by Operating Temperature

Range (2021-2026) & (USD Million)

Table 65. World Industrial PC Motherboard Production Value by Operating Temperature

Range (2027-2032) & (USD Million)

Table 66. World Industrial PC Motherboard Average Price by Operating Temperature

Range (2021-2026) & (US\$/Unit)

Table 67. World Industrial PC Motherboard Average Price by Operating Temperature

Range (2027-2032) & (US\$/Unit)

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

Table 69. World Industrial PC Motherboard Production by Application (2021-2026) & (Units)

Table 70. World Industrial PC Motherboard Production by Application (2027-2032) & (Units)

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

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

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

Table 74. World Industrial PC Motherboard 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 Industrial PC Motherboard Product and Services

Table 78. Advantech Industrial PC Motherboard 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 Industrial PC Motherboard Product and Services

Table 84. Kontron Industrial PC Motherboard 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. Supermicro Basic Information, Manufacturing Base and Competitors

Table 88. Supermicro Major Business

Table 89. Supermicro Industrial PC Motherboard Product and Services

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

Table 91. Supermicro Recent Developments/Updates

Table 92. Supermicro Competitive Strengths & Weaknesses

Table 93. AAEON Technology Basic Information, Manufacturing Base and Competitors

Table 94. AAEON Technology Major Business

Table 95. AAEON Technology Industrial PC Motherboard Product and Services

Table 96. AAEON Technology Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. AAEON Technology Recent Developments/Updates

Table 98. AAEON Technology Competitive Strengths & Weaknesses

Table 99. ADLINK Technology Basic Information, Manufacturing Base and Competitors

Table 100. ADLINK Technology Major Business

Table 101. ADLINK Technology Industrial PC Motherboard Product and Services

Table 102. ADLINK Technology Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ADLINK Technology Recent Developments/Updates

Table 104. ADLINK Technology Competitive Strengths & Weaknesses

Table 105. IEI Integration Basic Information, Manufacturing Base and Competitors

Table 106. IEI Integration Major Business

Table 107. IEI Integration Industrial PC Motherboard Product and Services

Table 108. IEI Integration Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. IEI Integration Recent Developments/Updates

Table 110. IEI Integration Competitive Strengths & Weaknesses

Table 111. DFI Basic Information, Manufacturing Base and Competitors

Table 112. DFI Major Business

Table 113. DFI Industrial PC Motherboard Product and Services

Table 114. DFI Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. DFI Recent Developments/Updates

Table 116. DFI Competitive Strengths & Weaknesses

Table 117. Congatec Basic Information, Manufacturing Base and Competitors

Table 118. Congatec Major Business
Table 119. Congatec Industrial PC Motherboard Product and Services
Table 120. Congatec Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Congatec Recent Developments/Updates
Table 122. Congatec Competitive Strengths & Weaknesses
Table 123. Portwell Basic Information, Manufacturing Base and Competitors
Table 124. Portwell Major Business
Table 125. Portwell Industrial PC Motherboard Product and Services
Table 126. Portwell Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Portwell Recent Developments/Updates
Table 128. Portwell Competitive Strengths & Weaknesses
Table 129. Axiomtek Basic Information, Manufacturing Base and Competitors
Table 130. Axiomtek Major Business
Table 131. Axiomtek Industrial PC Motherboard Product and Services
Table 132. Axiomtek Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Axiomtek Recent Developments/Updates
Table 134. Axiomtek Competitive Strengths & Weaknesses
Table 135. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors
Table 136. Mitsubishi Electric Major Business
Table 137. Mitsubishi Electric Industrial PC Motherboard Product and Services
Table 138. Mitsubishi Electric Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Mitsubishi Electric Recent Developments/Updates
Table 140. Mitsubishi Electric Competitive Strengths & Weaknesses
Table 141. Fujitsu Basic Information, Manufacturing Base and Competitors
Table 142. Fujitsu Major Business
Table 143. Fujitsu Industrial PC Motherboard Product and Services
Table 144. Fujitsu Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Fujitsu Recent Developments/Updates
Table 146. Fujitsu Competitive Strengths & Weaknesses
Table 147. Contec Basic Information, Manufacturing Base and Competitors
Table 148. Contec Major Business
Table 149. Contec Industrial PC Motherboard Product and Services
Table 150. Contec Industrial PC Motherboard Production (Units), Price (US\$/Unit),

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

Table 151. Contec Recent Developments/Updates

Table 152. Contec Competitive Strengths & Weaknesses

Table 153. Beckhoff Automation Basic Information, Manufacturing Base and Competitors

Table 154. Beckhoff Automation Major Business

Table 155. Beckhoff Automation Industrial PC Motherboard Product and Services

Table 156. Beckhoff Automation Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Beckhoff Automation Recent Developments/Updates

Table 158. Beckhoff Automation Competitive Strengths & Weaknesses

Table 159. Siemens Basic Information, Manufacturing Base and Competitors

Table 160. Siemens Major Business

Table 161. Siemens Industrial PC Motherboard Product and Services

Table 162. Siemens Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Siemens Recent Developments/Updates

Table 164. Siemens Competitive Strengths & Weaknesses

Table 165. NORCO Intelligent Technology Basic Information, Manufacturing Base and Competitors

Table 166. NORCO Intelligent Technology Major Business

Table 167. NORCO Intelligent Technology Industrial PC Motherboard Product and Services

Table 168. NORCO Intelligent Technology Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. NORCO Intelligent Technology Recent Developments/Updates

Table 170. NORCO Intelligent Technology Competitive Strengths & Weaknesses

Table 171. Seavo Technology Basic Information, Manufacturing Base and Competitors

Table 172. Seavo Technology Major Business

Table 173. Seavo Technology Industrial PC Motherboard Product and Services

Table 174. Seavo Technology Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Seavo Technology Recent Developments/Updates

Table 176. Seavo Technology Competitive Strengths & Weaknesses

Table 177. Forlinx Embedded Technology Basic Information, Manufacturing Base and Competitors

Table 178. Forlinx Embedded Technology Major Business

Table 179. Forlinx Embedded Technology Industrial PC Motherboard Product and Services

Table 180. Forlinx Embedded Technology Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Forlinx Embedded Technology Recent Developments/Updates

Table 182. Forlinx Embedded Technology Competitive Strengths & Weaknesses

Table 183. Fodenn Technology Basic Information, Manufacturing Base and Competitors

Table 184. Fodenn Technology Major Business

Table 185. Fodenn Technology Industrial PC Motherboard Product and Services

Table 186. Fodenn Technology Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Fodenn Technology Recent Developments/Updates

Table 188. Fodenn Technology Competitive Strengths & Weaknesses

Table 189. EVOC Intelligent Technology Basic Information, Manufacturing Base and Competitors

Table 190. EVOC Intelligent Technology Major Business

Table 191. EVOC Intelligent Technology Industrial PC Motherboard Product and Services

Table 192. EVOC Intelligent Technology Industrial PC Motherboard Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. EVOC Intelligent Technology Recent Developments/Updates

Table 194. EVOC Intelligent Technology Competitive Strengths & Weaknesses

Table 195. Global Key Players of Industrial PC Motherboard Upstream (Raw Materials)

Table 196. Global Industrial PC Motherboard Typical Customers

Table 197. Industrial PC Motherboard Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Industrial PC Motherboard Picture

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

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

Figure 4. World Industrial PC Motherboard Production (2021-2032) & (Units)

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

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

Figure 7. World Industrial PC Motherboard Production Market Share by Region (2021-2032)

Figure 8. North America Industrial PC Motherboard Production (2021-2032) & (Units)

Figure 9. Europe Industrial PC Motherboard Production (2021-2032) & (Units)

Figure 10. China Industrial PC Motherboard Production (2021-2032) & (Units)

Figure 11. Japan Industrial PC Motherboard Production (2021-2032) & (Units)

Figure 12. South Korea Industrial PC Motherboard Production (2021-2032) & (Units)

Figure 13. Southeast Asia Industrial PC Motherboard Production (2021-2032) & (Units)

Figure 14. China Taiwan Industrial PC Motherboard Production (2021-2032) & (Units)

Figure 15. Industrial PC Motherboard Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Industrial PC Motherboard Consumption (2021-2032) & (Units)

Figure 18. World Industrial PC Motherboard Consumption Market Share by Region (2021-2032)

Figure 19. United States Industrial PC Motherboard Consumption (2021-2032) & (Units)

Figure 20. China Industrial PC Motherboard Consumption (2021-2032) & (Units)

Figure 21. Europe Industrial PC Motherboard Consumption (2021-2032) & (Units)

Figure 22. Japan Industrial PC Motherboard Consumption (2021-2032) & (Units)

Figure 23. South Korea Industrial PC Motherboard Consumption (2021-2032) & (Units)

Figure 24. ASEAN Industrial PC Motherboard Consumption (2021-2032) & (Units)

Figure 25. India Industrial PC Motherboard Consumption (2021-2032) & (Units)

Figure 26. Producer Shipments of Industrial PC Motherboard by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Industrial PC Motherboard Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Industrial PC Motherboard

Markets in 2025

Figure 29. United States VS China: Industrial PC Motherboard Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Industrial PC Motherboard Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Industrial PC Motherboard Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Industrial PC Motherboard Production Market Share 2025

Figure 33. China Based Manufacturers Industrial PC Motherboard Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Industrial PC Motherboard Production Market Share 2025

Figure 35. World Industrial PC Motherboard Production Value by Form Factor, (USD Million), 2021 & 2025 & 2032

Figure 36. World Industrial PC Motherboard Production Value Market Share by Form Factor in 2025

Figure 37. ATX Industrial Motherboard

Figure 38. Micro-ATX Industrial Motherboard

Figure 39. Mini-ITX Industrial Motherboard

Figure 40. Pico-ITX Industrial Motherboard

Figure 41. 3.5-inch SBC Industrial Motherboard

Figure 42. EPIC Embedded Motherboard

Figure 43. COM Express Carrier Board

Figure 44. Backplane CPU Board (PICMG)

Figure 45. COM Express Carrier Board

Figure 46. World Industrial PC Motherboard Production Market Share by Form Factor (2021-2032)

Figure 47. World Industrial PC Motherboard Production Value Market Share by Form Factor (2021-2032)

Figure 48. World Industrial PC Motherboard Average Price by Form Factor (2021-2032) & (US\$/Unit)

Figure 49. World Industrial PC Motherboard Production Value by Processor Architecture, (USD Million), 2021 & 2025 & 2032

Figure 50. World Industrial PC Motherboard Production Value Market Share by Processor Architecture in 2025

Figure 51. x86 Industrial PC Motherboard

Figure 52. ARM Industrial Motherboard

Figure 53. RISC-V Industrial Motherboard

Figure 54. World Industrial PC Motherboard Production Market Share by Processor Architecture (2021-2032)

Figure 55. World Industrial PC Motherboard Production Value Market Share by Processor Architecture (2021-2032)

Figure 56. World Industrial PC Motherboard Average Price by Processor Architecture (2021-2032) & (US\$/Unit)

Figure 57. World Industrial PC Motherboard Production Value by Operating Temperature Range, (USD Million), 2021 & 2025 & 2032

Figure 58. World Industrial PC Motherboard Production Value Market Share by Operating Temperature Range in 2025

Figure 59. -60°C~

Figure 60. -20°C~70°C

Figure 61. -40°C~85°C

Figure 62. World Industrial PC Motherboard Production Market Share by Operating Temperature Range (2021-2032)

Figure 63. World Industrial PC Motherboard Production Value Market Share by Operating Temperature Range (2021-2032)

Figure 64. World Industrial PC Motherboard Average Price by Operating Temperature Range (2021-2032) & (US\$/Unit)

Figure 65. World Industrial PC Motherboard Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World Industrial PC Motherboard Production Value Market Share by Application in 2025

Figure 67. Industrial Automation

Figure 68. Robotics

Figure 69. Transportation

Figure 70. Energy & Utilities

Figure 71. Medical

Figure 72. Others

Figure 73. World Industrial PC Motherboard Production Market Share by Application (2021-2032)

Figure 74. World Industrial PC Motherboard Production Value Market Share by Application (2021-2032)

Figure 75. World Industrial PC Motherboard Average Price by Application (2021-2032) & (US\$/Unit)

Figure 76. Industrial PC Motherboard Industry Chain

Figure 77. Industrial PC Motherboard Procurement Model

Figure 78. Industrial PC Motherboard Sales Model

Figure 79. Industrial PC Motherboard Sales Channels, Direct Sales, and Distribution

Figure 80. Methodology

Figure 81. Research Process and Data Source

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