

Global PICMG Single Board Computer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PICMG Single Board Computer market size was valued at US\$ 1774 million in 2025 and is forecast to a readjusted size of US\$ 2858 million by 2032 with a CAGR of 7.0% during review period.

PICMG single board computers typically refer to slot type host boards compliant with standards such as PICMG 1.0 and PICMG 1.3, often described as Slot SBCs or SHB Express. Built around a backplane as the system expansion backbone, they consolidate CPU and critical I O onto a full size or half size card and interconnect to the backplane via gold fingers to provide scalable and serviceable host computing for chassis based industrial systems. Compared with general industrial motherboards, PICMG SBCs emphasize modular pairing with multiple backplanes to enable slot expansion and system tailoring, allowing integrators to configure data acquisition cards, communication cards, storage cards, and accelerator cards in the same chassis to address industrial automation, motion control, facility management, transportation management, telecommunications and digital surveillance, as well as test and measurement workloads. In terms of product architecture, vendors commonly adopt the PICMG 1.3 PCI Express interface to improve bandwidth and graphics capability, and offer multiple Intel platforms across generations with corresponding CPU and chipset options. Typical configurations include multiple Gigabit or 2.5GbE LAN ports, multiple SATA and NVMe M.2 expansions, multiple USB and serial ports, display outputs, and security features such as TPM. On the memory side, designs support DDR4 or DDR5 and provide ECC or non ECC options depending on the platform, together with long lifecycle supply and BIOS driver support to meet industrial longevity and field maintenance requirements. Commercial delivery is often a bundle of SBC plus backplane plus chassis, with customization, validation, and certification services aligned to industry specific I O

needs.

The core value of PICMG single board computers lies in modularizing and standardizing chassis based industrial host computing into a slot card, while using the backplane as a unified expansion backbone for electrical interconnect and slot resources. This shifts system expansion from custom wiring and frequent motherboard redesigns to selecting the required number and types of add on cards within an established backplane ecosystem. For system builders and integrators, the architecture meaningfully reduces solution replication costs and engineering validation effort, and it makes field maintenance and upgrades more predictable. As industrial demand diversifies across networking, data acquisition, storage, and acceleration, the Slot SBC plus backplane approach enables a wide range of configurations on the same chassis platform. It can support high density rack deployments while also offering half size options for space constrained systems, balancing performance, scalability, and serviceability and reinforcing a stable supporting supply chain.

From a technology perspective, PICMG 1.3 positions PCI Express as the key interface to the backplane, advancing bandwidth and graphics capability relative to earlier specifications and making the platform better suited to multi channel high speed I O and more demanding edge workloads. Vendor roadmaps track Intel platform refresh cycles and provide continuous supply across multiple generations of Core processors and chipset combinations, allowing industrial customers to phase upgrades based on performance needs and budget constraints. Typical designs integrate multiple LAN ports, multiple SATA and NVMe M.2 expansions, multiple USB and serial interfaces, and diverse display outputs. On the memory side, offerings span DDR4 and DDR5 and include ECC or non ECC options depending on the platform to address different reliability and data integrity requirements. By packaging these capabilities into standardized cards, PICMG SBCs push much of the compatibility and integration complexity into vendor qualification, helping customers shorten delivery cycles and reduce system risk.

In application and market terms, PICMG SBC and backplane combinations are widely deployed in industrial automation and motion control, facility and transportation management, telecommunications and digital surveillance, and test and measurement platforms. These verticals share long equipment lifecycles, high field maintenance costs, and strong requirements for expansion and stability. Commercially, vendors often sell bundled solutions spanning SBC, backplane, and chassis, complemented by downloads and long term support so customers can preserve traceable consistency of hardware and software when scaling deployments. On the supply side, production

capability is concentrated among global industrial computing vendors and Taiwan based industrial computing clusters, while demand spans global manufacturing, transportation, and security markets, creating cross regional supply demand matching. As edge computing and industrial networking continue to expand, requirements for higher bandwidth, higher compute, and tighter I O integration are expected to increase adoption of PICMG 1.3 and newer platform models, while the reuse advantage of backplane ecosystems should continue to support PICMG SBCs as a long lived architecture in chassis based industrial computing.

This report is a detailed and comprehensive analysis for global PICMG Single Board Computer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PICMG Single Board Computer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global PICMG Single Board Computer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global PICMG Single Board Computer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global PICMG Single Board Computer market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for PICMG Single Board Computer
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global PICMG Single Board Computer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Advantech, Axiomtek, ADLINK, IEI Integration, Portwell, ICP America, AAEON, IBASE, COMMELL, NEXCOM, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

PICMG Single Board Computer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PICMG Half-size Single Board Computer

PICMG Full-size Single Board Computer

Market segment by Standard Generation

PICMG 1.0

PICMG 1.3

Market segment by Cooling Method

Passive Cooling

Active Cooling

Market segment by Application

Energy and Power

Data Centers

Military and Aerospace

Education and Research

General Industry

Others

Major players covered

Advantech

Axiomtek

ADLINK

IEI Integration

Portwell

ICP America

AAEON

IBASE

COMMELL

NEXCOM

DFI

Kontron

CONTEC

Anewtech Systems

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PICMG Single Board Computer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PICMG Single Board Computer, with price, sales quantity, revenue, and global market share of PICMG Single Board Computer from 2021 to 2026.

Chapter 3, the PICMG Single Board Computer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PICMG Single Board Computer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and PICMG Single Board Computer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PICMG Single Board Computer.

Chapter 14 and 15, to describe PICMG Single Board Computer sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global PICMG Single Board Computer Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 PICMG Half-size Single Board Computer

1.3.3 PICMG Full-size Single Board Computer

1.4 Market Analysis by Standard Generation

1.4.1 Overview: Global PICMG Single Board Computer Consumption Value by Standard Generation: 2021 Versus 2025 Versus 2032

1.4.2 PICMG 1.0

1.4.3 PICMG 1.3

1.5 Market Analysis by Cooling Method

1.5.1 Overview: Global PICMG Single Board Computer Consumption Value by Cooling Method: 2021 Versus 2025 Versus 2032

1.5.2 Passive Cooling

1.5.3 Active Cooling

1.6 Market Analysis by Application

1.6.1 Overview: Global PICMG Single Board Computer Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Energy and Power

1.6.3 Data Centers

1.6.4 Military and Aerospace

1.6.5 Education and Research

1.6.6 General Industry

1.6.7 Others

1.7 Global PICMG Single Board Computer Market Size & Forecast

1.7.1 Global PICMG Single Board Computer Consumption Value (2021 & 2025 & 2032)

1.7.2 Global PICMG Single Board Computer Sales Quantity (2021-2032)

1.7.3 Global PICMG Single Board Computer Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Advantech

- 2.1.1 Advantech Details
- 2.1.2 Advantech Major Business
- 2.1.3 Advantech PICMG Single Board Computer Product and Services
- 2.1.4 Advantech PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Advantech Recent Developments/Updates
- 2.2 Axiomtek
 - 2.2.1 Axiomtek Details
 - 2.2.2 Axiomtek Major Business
 - 2.2.3 Axiomtek PICMG Single Board Computer Product and Services
 - 2.2.4 Axiomtek PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Axiomtek Recent Developments/Updates
- 2.3 ADLINK
 - 2.3.1 ADLINK Details
 - 2.3.2 ADLINK Major Business
 - 2.3.3 ADLINK PICMG Single Board Computer Product and Services
 - 2.3.4 ADLINK PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 ADLINK Recent Developments/Updates
- 2.4 IEI Integration
 - 2.4.1 IEI Integration Details
 - 2.4.2 IEI Integration Major Business
 - 2.4.3 IEI Integration PICMG Single Board Computer Product and Services
 - 2.4.4 IEI Integration PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 IEI Integration Recent Developments/Updates
- 2.5 Portwell
 - 2.5.1 Portwell Details
 - 2.5.2 Portwell Major Business
 - 2.5.3 Portwell PICMG Single Board Computer Product and Services
 - 2.5.4 Portwell PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Portwell Recent Developments/Updates
- 2.6 ICP America
 - 2.6.1 ICP America Details
 - 2.6.2 ICP America Major Business
 - 2.6.3 ICP America PICMG Single Board Computer Product and Services
 - 2.6.4 ICP America PICMG Single Board Computer Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 ICP America Recent Developments/Updates

2.7 AAEON

2.7.1 AAEON Details

2.7.2 AAEON Major Business

2.7.3 AAEON PICMG Single Board Computer Product and Services

2.7.4 AAEON PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 AAEON Recent Developments/Updates

2.8 IBASE

2.8.1 IBASE Details

2.8.2 IBASE Major Business

2.8.3 IBASE PICMG Single Board Computer Product and Services

2.8.4 IBASE PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 IBASE Recent Developments/Updates

2.9 COMMELL

2.9.1 COMMELL Details

2.9.2 COMMELL Major Business

2.9.3 COMMELL PICMG Single Board Computer Product and Services

2.9.4 COMMELL PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 COMMELL Recent Developments/Updates

2.10 NEXCOM

2.10.1 NEXCOM Details

2.10.2 NEXCOM Major Business

2.10.3 NEXCOM PICMG Single Board Computer Product and Services

2.10.4 NEXCOM PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 NEXCOM Recent Developments/Updates

2.11 DFI

2.11.1 DFI Details

2.11.2 DFI Major Business

2.11.3 DFI PICMG Single Board Computer Product and Services

2.11.4 DFI PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 DFI Recent Developments/Updates

2.12 Kontron

2.12.1 Kontron Details

- 2.12.2 Kontron Major Business
- 2.12.3 Kontron PICMG Single Board Computer Product and Services
- 2.12.4 Kontron PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Kontron Recent Developments/Updates
- 2.13 CONTEC
 - 2.13.1 CONTEC Details
 - 2.13.2 CONTEC Major Business
 - 2.13.3 CONTEC PICMG Single Board Computer Product and Services
 - 2.13.4 CONTEC PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 CONTEC Recent Developments/Updates
- 2.14 Anewtech Systems
 - 2.14.1 Anewtech Systems Details
 - 2.14.2 Anewtech Systems Major Business
 - 2.14.3 Anewtech Systems PICMG Single Board Computer Product and Services
 - 2.14.4 Anewtech Systems PICMG Single Board Computer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Anewtech Systems Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PICMG SINGLE BOARD COMPUTER BY MANUFACTURER

- 3.1 Global PICMG Single Board Computer Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global PICMG Single Board Computer Revenue by Manufacturer (2021-2026)
- 3.3 Global PICMG Single Board Computer Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of PICMG Single Board Computer by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 PICMG Single Board Computer Manufacturer Market Share in 2025
 - 3.4.3 Top 6 PICMG Single Board Computer Manufacturer Market Share in 2025
- 3.5 PICMG Single Board Computer Market: Overall Company Footprint Analysis
 - 3.5.1 PICMG Single Board Computer Market: Region Footprint
 - 3.5.2 PICMG Single Board Computer Market: Company Product Type Footprint
 - 3.5.3 PICMG Single Board Computer Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global PICMG Single Board Computer Market Size by Region

4.1.1 Global PICMG Single Board Computer Sales Quantity by Region (2021-2032)

4.1.2 Global PICMG Single Board Computer Consumption Value by Region (2021-2032)

4.1.3 Global PICMG Single Board Computer Average Price by Region (2021-2032)

4.2 North America PICMG Single Board Computer Consumption Value (2021-2032)

4.3 Europe PICMG Single Board Computer Consumption Value (2021-2032)

4.4 Asia-Pacific PICMG Single Board Computer Consumption Value (2021-2032)

4.5 South America PICMG Single Board Computer Consumption Value (2021-2032)

4.6 Middle East & Africa PICMG Single Board Computer Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global PICMG Single Board Computer Sales Quantity by Type (2021-2032)

5.2 Global PICMG Single Board Computer Consumption Value by Type (2021-2032)

5.3 Global PICMG Single Board Computer Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global PICMG Single Board Computer Sales Quantity by Application (2021-2032)

6.2 Global PICMG Single Board Computer Consumption Value by Application (2021-2032)

6.3 Global PICMG Single Board Computer Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America PICMG Single Board Computer Sales Quantity by Type (2021-2032)

7.2 North America PICMG Single Board Computer Sales Quantity by Application (2021-2032)

7.3 North America PICMG Single Board Computer Market Size by Country

7.3.1 North America PICMG Single Board Computer Sales Quantity by Country (2021-2032)

7.3.2 North America PICMG Single Board Computer Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe PICMG Single Board Computer Sales Quantity by Type (2021-2032)
- 8.2 Europe PICMG Single Board Computer Sales Quantity by Application (2021-2032)
- 8.3 Europe PICMG Single Board Computer Market Size by Country
 - 8.3.1 Europe PICMG Single Board Computer Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe PICMG Single Board Computer Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific PICMG Single Board Computer Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific PICMG Single Board Computer Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific PICMG Single Board Computer Market Size by Region
 - 9.3.1 Asia-Pacific PICMG Single Board Computer Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific PICMG Single Board Computer Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America PICMG Single Board Computer Sales Quantity by Type (2021-2032)
- 10.2 South America PICMG Single Board Computer Sales Quantity by Application (2021-2032)
- 10.3 South America PICMG Single Board Computer Market Size by Country

10.3.1 South America PICMG Single Board Computer Sales Quantity by Country (2021-2032)

10.3.2 South America PICMG Single Board Computer Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa PICMG Single Board Computer Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa PICMG Single Board Computer Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa PICMG Single Board Computer Market Size by Country

11.3.1 Middle East & Africa PICMG Single Board Computer Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa PICMG Single Board Computer Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 PICMG Single Board Computer Market Drivers

12.2 PICMG Single Board Computer Market Restraints

12.3 PICMG Single Board Computer Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of PICMG Single Board Computer and Key Manufacturers

13.2 Manufacturing Costs Percentage of PICMG Single Board Computer

13.3 PICMG Single Board Computer Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 PICMG Single Board Computer Typical Distributors

14.3 PICMG Single Board Computer Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global PICMG Single Board Computer Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global PICMG Single Board Computer Consumption Value by Standard Generation, (USD Million), 2021 & 2025 & 2032

Table 3. Global PICMG Single Board Computer Consumption Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Table 4. Global PICMG Single Board Computer Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Advantech Basic Information, Manufacturing Base and Competitors

Table 6. Advantech Major Business

Table 7. Advantech PICMG Single Board Computer Product and Services

Table 8. Advantech PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Advantech Recent Developments/Updates

Table 10. Axiomtek Basic Information, Manufacturing Base and Competitors

Table 11. Axiomtek Major Business

Table 12. Axiomtek PICMG Single Board Computer Product and Services

Table 13. Axiomtek PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Axiomtek Recent Developments/Updates

Table 15. ADLINK Basic Information, Manufacturing Base and Competitors

Table 16. ADLINK Major Business

Table 17. ADLINK PICMG Single Board Computer Product and Services

Table 18. ADLINK PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. ADLINK Recent Developments/Updates

Table 20. IEI Integration Basic Information, Manufacturing Base and Competitors

Table 21. IEI Integration Major Business

Table 22. IEI Integration PICMG Single Board Computer Product and Services

Table 23. IEI Integration PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. IEI Integration Recent Developments/Updates

Table 25. Portwell Basic Information, Manufacturing Base and Competitors

Table 26. Portwell Major Business

- Table 27. Portwell PICMG Single Board Computer Product and Services
- Table 28. Portwell PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Portwell Recent Developments/Updates
- Table 30. ICP America Basic Information, Manufacturing Base and Competitors
- Table 31. ICP America Major Business
- Table 32. ICP America PICMG Single Board Computer Product and Services
- Table 33. ICP America PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. ICP America Recent Developments/Updates
- Table 35. AAEON Basic Information, Manufacturing Base and Competitors
- Table 36. AAEON Major Business
- Table 37. AAEON PICMG Single Board Computer Product and Services
- Table 38. AAEON PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. AAEON Recent Developments/Updates
- Table 40. IBASE Basic Information, Manufacturing Base and Competitors
- Table 41. IBASE Major Business
- Table 42. IBASE PICMG Single Board Computer Product and Services
- Table 43. IBASE PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. IBASE Recent Developments/Updates
- Table 45. COMMELL Basic Information, Manufacturing Base and Competitors
- Table 46. COMMELL Major Business
- Table 47. COMMELL PICMG Single Board Computer Product and Services
- Table 48. COMMELL PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. COMMELL Recent Developments/Updates
- Table 50. NEXCOM Basic Information, Manufacturing Base and Competitors
- Table 51. NEXCOM Major Business
- Table 52. NEXCOM PICMG Single Board Computer Product and Services
- Table 53. NEXCOM PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 54. NEXCOM Recent Developments/Updates
- Table 55. DFI Basic Information, Manufacturing Base and Competitors
- Table 56. DFI Major Business
- Table 57. DFI PICMG Single Board Computer Product and Services
- Table 58. DFI PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. DFI Recent Developments/Updates

Table 60. Kontron Basic Information, Manufacturing Base and Competitors

Table 61. Kontron Major Business

Table 62. Kontron PICMG Single Board Computer Product and Services

Table 63. Kontron PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Kontron Recent Developments/Updates

Table 65. CONTEC Basic Information, Manufacturing Base and Competitors

Table 66. CONTEC Major Business

Table 67. CONTEC PICMG Single Board Computer Product and Services

Table 68. CONTEC PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. CONTEC Recent Developments/Updates

Table 70. Anewtech Systems Basic Information, Manufacturing Base and Competitors

Table 71. Anewtech Systems Major Business

Table 72. Anewtech Systems PICMG Single Board Computer Product and Services

Table 73. Anewtech Systems PICMG Single Board Computer Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Anewtech Systems Recent Developments/Updates

Table 75. Global PICMG Single Board Computer Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 76. Global PICMG Single Board Computer Revenue by Manufacturer (2021-2026) & (USD Million)

Table 77. Global PICMG Single Board Computer Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 78. Market Position of Manufacturers in PICMG Single Board Computer, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 79. Head Office and PICMG Single Board Computer Production Site of Key Manufacturer

Table 80. PICMG Single Board Computer Market: Company Product Type Footprint

Table 81. PICMG Single Board Computer Market: Company Product Application Footprint

Table 82. PICMG Single Board Computer New Market Entrants and Barriers to Market Entry

Table 83. PICMG Single Board Computer Mergers, Acquisition, Agreements, and Collaborations

Table 84. Global PICMG Single Board Computer Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 85. Global PICMG Single Board Computer Sales Quantity by Region (2021-2026) & (Units)

Table 86. Global PICMG Single Board Computer Sales Quantity by Region (2027-2032) & (Units)

Table 87. Global PICMG Single Board Computer Consumption Value by Region (2021-2026) & (USD Million)

Table 88. Global PICMG Single Board Computer Consumption Value by Region (2027-2032) & (USD Million)

Table 89. Global PICMG Single Board Computer Average Price by Region (2021-2026) & (US\$/Unit)

Table 90. Global PICMG Single Board Computer Average Price by Region (2027-2032) & (US\$/Unit)

Table 91. Global PICMG Single Board Computer Sales Quantity by Type (2021-2026) & (Units)

Table 92. Global PICMG Single Board Computer Sales Quantity by Type (2027-2032) & (Units)

Table 93. Global PICMG Single Board Computer Consumption Value by Type (2021-2026) & (USD Million)

Table 94. Global PICMG Single Board Computer Consumption Value by Type (2027-2032) & (USD Million)

Table 95. Global PICMG Single Board Computer Average Price by Type (2021-2026) & (US\$/Unit)

Table 96. Global PICMG Single Board Computer Average Price by Type (2027-2032) & (US\$/Unit)

Table 97. Global PICMG Single Board Computer Sales Quantity by Application (2021-2026) & (Units)

Table 98. Global PICMG Single Board Computer Sales Quantity by Application (2027-2032) & (Units)

Table 99. Global PICMG Single Board Computer Consumption Value by Application (2021-2026) & (USD Million)

Table 100. Global PICMG Single Board Computer Consumption Value by Application (2027-2032) & (USD Million)

Table 101. Global PICMG Single Board Computer Average Price by Application (2021-2026) & (US\$/Unit)

Table 102. Global PICMG Single Board Computer Average Price by Application (2027-2032) & (US\$/Unit)

Table 103. North America PICMG Single Board Computer Sales Quantity by Type (2021-2026) & (Units)

Table 104. North America PICMG Single Board Computer Sales Quantity by Type

(2027-2032) & (Units)

Table 105. North America PICMG Single Board Computer Sales Quantity by Application (2021-2026) & (Units)

Table 106. North America PICMG Single Board Computer Sales Quantity by Application (2027-2032) & (Units)

Table 107. North America PICMG Single Board Computer Sales Quantity by Country (2021-2026) & (Units)

Table 108. North America PICMG Single Board Computer Sales Quantity by Country (2027-2032) & (Units)

Table 109. North America PICMG Single Board Computer Consumption Value by Country (2021-2026) & (USD Million)

Table 110. North America PICMG Single Board Computer Consumption Value by Country (2027-2032) & (USD Million)

Table 111. Europe PICMG Single Board Computer Sales Quantity by Type (2021-2026) & (Units)

Table 112. Europe PICMG Single Board Computer Sales Quantity by Type (2027-2032) & (Units)

Table 113. Europe PICMG Single Board Computer Sales Quantity by Application (2021-2026) & (Units)

Table 114. Europe PICMG Single Board Computer Sales Quantity by Application (2027-2032) & (Units)

Table 115. Europe PICMG Single Board Computer Sales Quantity by Country (2021-2026) & (Units)

Table 116. Europe PICMG Single Board Computer Sales Quantity by Country (2027-2032) & (Units)

Table 117. Europe PICMG Single Board Computer Consumption Value by Country (2021-2026) & (USD Million)

Table 118. Europe PICMG Single Board Computer Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Asia-Pacific PICMG Single Board Computer Sales Quantity by Type (2021-2026) & (Units)

Table 120. Asia-Pacific PICMG Single Board Computer Sales Quantity by Type (2027-2032) & (Units)

Table 121. Asia-Pacific PICMG Single Board Computer Sales Quantity by Application (2021-2026) & (Units)

Table 122. Asia-Pacific PICMG Single Board Computer Sales Quantity by Application (2027-2032) & (Units)

Table 123. Asia-Pacific PICMG Single Board Computer Sales Quantity by Region (2021-2026) & (Units)

Table 124. Asia-Pacific PICMG Single Board Computer Sales Quantity by Region (2027-2032) & (Units)

Table 125. Asia-Pacific PICMG Single Board Computer Consumption Value by Region (2021-2026) & (USD Million)

Table 126. Asia-Pacific PICMG Single Board Computer Consumption Value by Region (2027-2032) & (USD Million)

Table 127. South America PICMG Single Board Computer Sales Quantity by Type (2021-2026) & (Units)

Table 128. South America PICMG Single Board Computer Sales Quantity by Type (2027-2032) & (Units)

Table 129. South America PICMG Single Board Computer Sales Quantity by Application (2021-2026) & (Units)

Table 130. South America PICMG Single Board Computer Sales Quantity by Application (2027-2032) & (Units)

Table 131. South America PICMG Single Board Computer Sales Quantity by Country (2021-2026) & (Units)

Table 132. South America PICMG Single Board Computer Sales Quantity by Country (2027-2032) & (Units)

Table 133. South America PICMG Single Board Computer Consumption Value by Country (2021-2026) & (USD Million)

Table 134. South America PICMG Single Board Computer Consumption Value by Country (2027-2032) & (USD Million)

Table 135. Middle East & Africa PICMG Single Board Computer Sales Quantity by Type (2021-2026) & (Units)

Table 136. Middle East & Africa PICMG Single Board Computer Sales Quantity by Type (2027-2032) & (Units)

Table 137. Middle East & Africa PICMG Single Board Computer Sales Quantity by Application (2021-2026) & (Units)

Table 138. Middle East & Africa PICMG Single Board Computer Sales Quantity by Application (2027-2032) & (Units)

Table 139. Middle East & Africa PICMG Single Board Computer Sales Quantity by Country (2021-2026) & (Units)

Table 140. Middle East & Africa PICMG Single Board Computer Sales Quantity by Country (2027-2032) & (Units)

Table 141. Middle East & Africa PICMG Single Board Computer Consumption Value by Country (2021-2026) & (USD Million)

Table 142. Middle East & Africa PICMG Single Board Computer Consumption Value by Country (2027-2032) & (USD Million)

Table 143. PICMG Single Board Computer Raw Material

Table 144. Key Manufacturers of PICMG Single Board Computer Raw Materials

Table 145. PICMG Single Board Computer Typical Distributors

Table 146. PICMG Single Board Computer Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. PICMG Single Board Computer Picture

Figure 2. Global PICMG Single Board Computer Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global PICMG Single Board Computer Revenue Market Share by Type in 2025

Figure 4. PICMG Half-size Single Board Computer Examples

Figure 5. PICMG Full-size Single Board Computer Examples

Figure 6. Global PICMG Single Board Computer Revenue by Standard Generation, (USD Million), 2021 & 2025 & 2032

Figure 7. Global PICMG Single Board Computer Revenue Market Share by Standard Generation in 2025

Figure 8. PICMG 1.0 Examples

Figure 9. PICMG 1.3 Examples

Figure 10. Global PICMG Single Board Computer Revenue by Cooling Method, (USD Million), 2021 & 2025 & 2032

Figure 11. Global PICMG Single Board Computer Revenue Market Share by Cooling Method in 2025

Figure 12. Passive Cooling Examples

Figure 13. Active Cooling Examples

Figure 14. Global PICMG Single Board Computer Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 15. Global PICMG Single Board Computer Revenue Market Share by Application in 2025

Figure 16. Energy and Power Examples

Figure 17. Data Centers Examples

Figure 18. Military and Aerospace Examples

Figure 19. Education and Research Examples

Figure 20. General Industry Examples

Figure 21. Others Examples

Figure 22. Global PICMG Single Board Computer Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 23. Global PICMG Single Board Computer Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 24. Global PICMG Single Board Computer Sales Quantity (2021-2032) & (Units)

Figure 25. Global PICMG Single Board Computer Price (2021-2032) & (US\$/Unit)

Figure 26. Global PICMG Single Board Computer Sales Quantity Market Share by Manufacturer in 2025

Figure 27. Global PICMG Single Board Computer Revenue Market Share by Manufacturer in 2025

Figure 28. Producer Shipments of PICMG Single Board Computer by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 29. Top 3 PICMG Single Board Computer Manufacturer (Revenue) Market Share in 2025

Figure 30. Top 6 PICMG Single Board Computer Manufacturer (Revenue) Market Share in 2025

Figure 31. Global PICMG Single Board Computer Sales Quantity Market Share by Region (2021-2032)

Figure 32. Global PICMG Single Board Computer Consumption Value Market Share by Region (2021-2032)

Figure 33. North America PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 34. Europe PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 35. Asia-Pacific PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 36. South America PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 37. Middle East & Africa PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 38. Global PICMG Single Board Computer Sales Quantity Market Share by Type (2021-2032)

Figure 39. Global PICMG Single Board Computer Consumption Value Market Share by Type (2021-2032)

Figure 40. Global PICMG Single Board Computer Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. Global PICMG Single Board Computer Sales Quantity Market Share by Application (2021-2032)

Figure 42. Global PICMG Single Board Computer Revenue Market Share by Application (2021-2032)

Figure 43. Global PICMG Single Board Computer Average Price by Application (2021-2032) & (US\$/Unit)

Figure 44. North America PICMG Single Board Computer Sales Quantity Market Share by Type (2021-2032)

Figure 45. North America PICMG Single Board Computer Sales Quantity Market Share

by Application (2021-2032)

Figure 46. North America PICMG Single Board Computer Sales Quantity Market Share by Country (2021-2032)

Figure 47. North America PICMG Single Board Computer Consumption Value Market Share by Country (2021-2032)

Figure 48. United States PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 49. Canada PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 50. Mexico PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 51. Europe PICMG Single Board Computer Sales Quantity Market Share by Type (2021-2032)

Figure 52. Europe PICMG Single Board Computer Sales Quantity Market Share by Application (2021-2032)

Figure 53. Europe PICMG Single Board Computer Sales Quantity Market Share by Country (2021-2032)

Figure 54. Europe PICMG Single Board Computer Consumption Value Market Share by Country (2021-2032)

Figure 55. Germany PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 56. France PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 57. United Kingdom PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 58. Russia PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 59. Italy PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 60. Asia-Pacific PICMG Single Board Computer Sales Quantity Market Share by Type (2021-2032)

Figure 61. Asia-Pacific PICMG Single Board Computer Sales Quantity Market Share by Application (2021-2032)

Figure 62. Asia-Pacific PICMG Single Board Computer Sales Quantity Market Share by Region (2021-2032)

Figure 63. Asia-Pacific PICMG Single Board Computer Consumption Value Market Share by Region (2021-2032)

Figure 64. China PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 65. Japan PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 66. South Korea PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 67. India PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 68. Southeast Asia PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 69. Australia PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 70. South America PICMG Single Board Computer Sales Quantity Market Share by Type (2021-2032)

Figure 71. South America PICMG Single Board Computer Sales Quantity Market Share by Application (2021-2032)

Figure 72. South America PICMG Single Board Computer Sales Quantity Market Share by Country (2021-2032)

Figure 73. South America PICMG Single Board Computer Consumption Value Market Share by Country (2021-2032)

Figure 74. Brazil PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 75. Argentina PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 76. Middle East & Africa PICMG Single Board Computer Sales Quantity Market Share by Type (2021-2032)

Figure 77. Middle East & Africa PICMG Single Board Computer Sales Quantity Market Share by Application (2021-2032)

Figure 78. Middle East & Africa PICMG Single Board Computer Sales Quantity Market Share by Country (2021-2032)

Figure 79. Middle East & Africa PICMG Single Board Computer Consumption Value Market Share by Country (2021-2032)

Figure 80. Turkey PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 81. Egypt PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 82. Saudi Arabia PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 83. South Africa PICMG Single Board Computer Consumption Value (2021-2032) & (USD Million)

Figure 84. PICMG Single Board Computer Market Drivers

Figure 85. PICMG Single Board Computer Market Restraints

Figure 86. PICMG Single Board Computer Market Trends

Figure 87. Porters Five Forces Analysis

Figure 88. Manufacturing Cost Structure Analysis of PICMG Single Board Computer in 2025

Figure 89. Manufacturing Process Analysis of PICMG Single Board Computer

Figure 90. PICMG Single Board Computer Industrial Chain

Figure 91. Sales Channel: Direct to End-User vs Distributors

Figure 92. Direct Channel Pros & Cons

Figure 93. Indirect Channel Pros & Cons

Figure 94. Methodology

Figure 95. Research Process and Data Source

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