

Global PICMG Full-size 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 Full-size Single Board Computer market size was valued at US\$ 61.12 million in 2025 and is forecast to a readjusted size of US\$ 85.71 million by 2032 with a CAGR of 4.9% 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 Full-size 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 Full-size Single Board Computer market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global PICMG Full-size 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 Full-size 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 Full-size 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 Full-size 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 Full-size 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 AAEON, ADLINK, Advantech, Anewtech Systems, ARBOR Technology Corp., ASWIN Inc., Axiontek, Beijing Yuanland Tongda Technology Co., Ltd., COMMELL, IBASE, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

PICMG Full-size 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 1.0

PICMG 1.1

PICMG 1.2

Others

Market segment by Memory Reliability

ECC Supported

ECC Not Supported

Market segment by Board Size

PCI ISA

PCIe

Other

Market segment by Application

Energy and Power

Data Centers

Military and Aerospace

Education and Research

General Industry

Others

Major players covered

AAEON

ADLINK

Advantech

Anewtech Systems

ARBOR Technology Corp.

ASWIN Inc.

Axiomtek

Beijing Yuanland Tongda Technology Co., Ltd.

COMMELL

IBASE

ICP America

IEI Integration

NEXCOM

Portwell

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 Full-size Single Board Computer product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the PICMG Full-size 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 Full-size 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 Full-size 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 Full-size Single Board Computer.

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

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