

Global PICMG Single Board Computer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PICMG Single Board Computer market size is expected to reach \$ 2858 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

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 studies the global PICMG Single Board Computer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PICMG Single Board Computer 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 PICMG Single Board Computer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PICMG Single Board Computer total production and demand, 2021-2032, (Units)

Global PICMG Single Board Computer total production value, 2021-2032, (USD Million)

Global PICMG Single Board Computer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global PICMG Single Board Computer consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: PICMG Single Board Computer domestic production, consumption, key domestic manufacturers and share

Global PICMG Single Board Computer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global PICMG Single Board Computer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global PICMG Single Board Computer production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global PICMG Single Board Computer 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PICMG Single Board Computer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, 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 PICMG Single Board Computer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PICMG Single Board Computer Market, Segmentation by Type:

PICMG Half-size Single Board Computer

PICMG Full-size Single Board Computer

Global PICMG Single Board Computer Market, Segmentation by Standard Generation:

PICMG 1.0

PICMG 1.3

Global PICMG Single Board Computer Market, Segmentation by Cooling Method:

Passive Cooling

Active Cooling

Global PICMG Single Board Computer Market, Segmentation by Application:

Energy and Power

Data Centers

Military and Aerospace

Education and Research

General Industry

Others

Companies Profiled:

Advantech

Axiomtek

ADLINK

IEI Integration

Portwell

ICP America

AAEON

IBASE

COMMELL

NEXCOM

DFI

Kontron

CONTEC

Anewtech Systems

Key Questions Answered:

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

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