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Global PICMG Full-size Single Board Computer Market Growth 2026-2032

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Abstracts

The global PICMG Full-size Single Board Computer market size is predicted to grow from US$ 58.11 million in 2025 to US$ 82.93 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 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.

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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

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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.

LP Information, Inc. (LPI) ' newest research report, the ?PICMG Full-size Single Board Computer Industry Forecast? looks at past sales and reviews total world PICMG Full-size Single Board Computer sales in 2025, providing a comprehensive analysis by region and market sector of projected PICMG Full-size Single Board Computer sales for 2026 through 2032. With PICMG Full-size Single Board Computer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world PICMG Full-size Single Board Computer industry.

This Insight Report provides a comprehensive analysis of the global PICMG Full-size Single Board Computer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PICMG Full-size Single Board Computer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global PICMG Full-size Single Board Computer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PICMG Full-size Single Board Computer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PICMG Full-size Single Board Computer.

This report presents a comprehensive overview, market shares, and growth opportunities of PICMG Full-size Single Board Computer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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PICMG 1.0

PICMG 1.1

PICMG 1.2

Others

Segmentation by Memory Reliability:

ECC Supported

ECC Not Supported

Segmentation by Board Size:

PCI ISA

PCIe

Other

Segmentation by Application:

Energy and Power

Data Centers

Military and Aerospace

Education and Research

General Industry

Others

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa

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Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

AAEON

ADLINK

Advantech

Anewtech Systems

ARBOR Technology Corp.

ASWIN Inc.

Axiomtek

Beijing Yuanland Tongda Technology Co., Ltd.

COMMELL

IBASE

ICP America

IEI Integration

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NEXCOM

Portwell

Key Questions Addressed in this Report

What is the 10-year outlook for the global PICMG Full-size Single Board Computer market?

What factors are driving PICMG Full-size Single Board Computer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PICMG Full-size Single Board Computer market opportunities vary by end market size?

How does PICMG Full-size Single Board Computer break out by Type, by Application?

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