

# Global PICMG Half-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 Half-size Single Board Computer market size was valued at US\$ 194 million in 2025 and is forecast to a readjusted size of US\$ 274 million by 2032 with a CAGR of 5.1% during review period.

PICMG half-size single board computers are slot-based motherboards for industrial and embedded systems. Their core value lies in delivering high computing performance, flexible expansion, and fast maintenance within compact chassis through a card-on-backplane architecture, addressing the upgrade, expansion, downtime, and lifecycle-management limitations of conventional integrated industrial motherboards. Based on official product pages, this category spans multiple processor tiers from low-power Atom and Pentium M platforms to Core and Xeon platforms, and supports both PICMG 1.0 and PICMG 1.3 standards. Common capabilities include DDR4 or DDR5 memory, PCIe or PCI expansion, dual LAN, multi-display support, SATA RAID, M.2, and industrial I/O interfaces. This allows the products to serve both legacy-bus compatibility requirements in installed equipment and demanding applications such as machine vision, factory automation, medical equipment, digital signage, transportation, and edge computing, where reliability and serviceability matter. These products are typically delivered not as standalone boards only, but as platform solutions bundled with backplanes, chassis, thermal design, drivers, and longevity support, making the business model a mix of standard board sales and project-based customization.

PICMG half-size single board computers are not a mass-market category designed for broad consumer-volume shipments. Instead, they are a highly resilient niche platform within the industrial computing ecosystem. Their value lies not merely in delivering compute performance, but in combining computing, expansion, maintainability, and

lifecycle management within one industrial architecture. For many automation systems, machine vision platforms, medical terminals, and transportation control devices, the system must support acquisition cards, motion-control cards, communication cards, or dedicated I/O within a limited chassis, while still allowing easy field replacement and future upgrades. This is exactly why half-size PICMG boards continue to exist. Compared with integrated industrial motherboards, this category preserves stronger expansion flexibility through a backplane-based architecture and reduces system redesign complexity through standardized interfaces. Official product pages also show that vendors do not treat these products as isolated boards; instead, they position them inside a broader product family that includes industrial motherboards, backplanes, chassis, and platform solutions. That means this category functions more like an industrial infrastructure component than a standalone part. For that reason, although it may not be highly visible in mainstream markets, it maintains strong substitution barriers in industrial environments that require long product life, rapid repair, and stable expansion.

From a demand-evolution perspective, this category is developing into a clear dual-track market. One track is legacy upgrade, meaning life extension and replacement demand for installed PICMG or PCI-based systems. These customers prioritize bus compatibility, form-factor fit, low retrofit cost, and long-term serviceability, which is why low-power, half-size, and optionally fanless products still retain practical value. The second track is the new wave of high-performance industrial edge computing demand. In machine vision, smart manufacturing, edge data acquisition, and high-reliability control scenarios, customers want to preserve the advantages of slot-based architecture while introducing stronger Core or Xeon platforms, larger memory capacity, faster networking and storage interfaces, and richer PCIe resources. Current product pages show that 64 GB-class memory, M.2, RAID, dual LAN, multi-display, and high-bandwidth expansion have already become key features of higher-end models. This indicates that half-size PICMG has not remained merely a legacy compatibility component, but is continuing to evolve into a higher-performance industrial platform. Future growth is therefore unlikely to come from consumer-style scale expansion, and more likely to come from installed-base industrial upgrades, automation line modernization, and deployment of highly reliable edge-intelligent equipment.

From a regional and external-environment perspective, the supply side of this category has formed a clear East Asian cluster structure, with Taiwan as the most important center for manufacturing and R&D, while Japan retains representative industrial-computing vendors. These suppliers then reach overseas markets through multilingual websites, regional sales entities, and global channels. Regional concentration does not

imply a narrow market. On the contrary, these products naturally serve global demand in industrial automation, transportation, healthcare, and embedded-system upgrades, meaning their consumption footprint can expand alongside manufacturing digitalization. Especially in 2025 and 2026, policy momentum around smart manufacturing, industrial internet, AI-enabled manufacturing, and industrial digital transformation continues to strengthen. That directly reinforces investment logic for on-site computing nodes, data-acquisition nodes, and maintainable control platforms. While half-size PICMG boards may not always appear as a direct policy target in official documents, they stand to benefit as part of the industrial control and edge-computing hardware layer. In other words, the category's medium- to long-term outlook does not depend on becoming a headline concept, but on whether it continues to serve as a high-reliability foundational component in industrial system upgrades. Based on current product-roadmap signals from official pages, that outlook is relatively positive.

This report is a detailed and comprehensive analysis for global PICMG Half-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 Half-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 Half-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 Half-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 Half-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 Half-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 Half-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 Advantech, Axiomtek, ADLINK, IEI Integration, Portwell, IBASE, AAEON, NEXCOM International Co., Ltd., Taiwan Commate Computer Inc. (COMMELL), Contec Co., Ltd., etc.

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

## Market Segmentation

PICMG Half-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

Non-ECC

## Market segment by Bus Type

PCI ISA

PCIe

Others

## Market segment by Application

Energy and Power

Data Centers

Military and Aerospace

Education and Research

General Industrial

Others

## Major players covered

Advantech

Axiomtek

ADLINK

IEI Integration

Portwell

IBASE

AAEON

NEXCOM International Co., Ltd.

Taiwan Commate Computer Inc. (COMMELL)

Contec Co., Ltd.

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

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

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

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

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