

# Global AI Server Processors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G0B5F1456171EN.html>

Date: January 2026

Pages: 139

Price: US\$ 3,480.00 (Single User License)

ID: G0B5F1456171EN

## Abstracts

According to our (Global Info Research) latest study, the global AI Server Processors market size was valued at US\$ 16097 million in 2025 and is forecast to a readjusted size of US\$ 58029 million by 2032 with a CAGR of 19.6% during review period.

AI Server Processors (CPU+GPU+ASIC+FPGA): These refer to a collection of key processors and accelerator silicon devices deployed in data center/server room environments for high-parallel computing workloads such as AI training and inference. They include at least a host CPU and one or more AI acceleration chips (GPU/AI ASIC/FPGA), working in conjunction with memory, network, and storage via PCIe, dedicated high-speed interconnects, etc. Functionally, they can be categorized as: CPU (task scheduling, I/O, and system stack support); GPU (general-purpose parallel and tensor computing, the main force for training); AI ASIC (dedicated acceleration for specific operators/dataflows, handling inference/training or both); and FPGA (reconfigurable logic acceleration, commonly used for low-latency inference, network/storage/security data path offloading). Typical application scenarios include: large model training clusters, inference services (online/offline), recommendation/search, video understanding, scientific computing, and enterprise private AI deployments.

Within a single AI server, the CPU is responsible for the system stack, virtualization, workload orchestration, and network/storage I/O; the GPU remains the primary compute asset for training and general-purpose inference, but its deliverability is increasingly constrained by HBM supply and advanced-packaging allocations, interconnect capability, and the maturity of the software stack; ASICs are rising rapidly as inference scales, driven by superior cost per token and improved supply controllability; and

FPGAs play more of a reconfigurable ?infrastructure silicon? role, creating value in low-latency pre/post-processing for inference, network/storage offload, and SmartNIC or datapath customization use cases.

On the demand side, power and thermal management are becoming hard constraints. The upward trajectory of data center electricity consumption is shifting buyer evaluation from ?peak compute? toward end-to-end throughput/latency, energy efficiency (performance per watt), and delivery lead times?while also accelerating a procurement shift from standalone cards to integrated offerings that bundle ?cards/servers/racks + networking + software? as a unified solution.

On the supply side, the expansion pace of HBM and advanced packaging effectively caps the industry?s short- to mid-term growth ceiling, and long-term supply agreements plus allocation mechanisms are taking on greater weight in commercial terms.

For CPUs, diligence should focus on platform generation cycles and deliverability milestones. For example, AMD?s EPYC Turin launch has driven upgrades in AI host platforms, and the company has disclosed silicon milestones for the next-generation EPYC ?Venice? on advanced process nodes to anchor the subsequent supply window; Intel, meanwhile, has pursued differentiated core strategies across the Xeon 6 generation and followed with P-core product releases to strengthen its host-CPU proposition for AI servers.

For GPUs, assessment must cover the combined ?silicon + system? cadence: NVIDIA?s progression from H200 to Blackwell (B200/GB200) and onward to the Vera Rubin platform?along with ramp risks in rack-scale delivery stemming from thermal design and software engineering readiness?will directly determine the real-world ramp curve and supply allocation.

AMD is similarly advancing ecosystem scale-up through MI325X, the MI350 series, and a rack-level platform roadmap, with the key determinant being whether OEMs and cloud providers can establish repeatable, scaled cluster deployment playbooks.

This report is a detailed and comprehensive analysis for global AI Server Processors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Function 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 AI Server Processors market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

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

Global AI Server Processors market size and forecasts, by Function and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Server Processors market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 AI Server Processors

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 AI Server Processors 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 NVIDIA, Intel, AMD, Huawei Ascend, Qualcomm, IBM, Cerebras, Ampere, Graphcore, Groq, etc.

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

## Market Segmentation

AI Server Processors market is split by Function and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Function, 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 Function

GPU

FPGA

ASIC

GPU

### Market segment by Type

Training Processors

Inference Processors

### Market segment by Deployment

Cloud Processors

Edge Processors

Terminal Processors

### Market segment by Application

CPU+GPU Servers

CPU+FPGA Servers

CPU+ASIC Servers

Others

### Major players covered

NVIDIA

Intel

AMD

Huawei Ascend

Qualcomm

IBM

Cerebras

Ampere

Graphcore

Groq

Cambrian

Moore Threads

MetaX

Shanghai Biren Technology

Enflame

Microchip

Lattice

Achronix

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 AI Server Processors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Server Processors, with price, sales quantity, revenue, and global market share of AI Server Processors from 2021 to 2026.

Chapter 3, the AI Server Processors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Server Processors 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 Function and by Application, with sales market share and growth rate by Function, 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 AI Server Processors market forecast, by regions, by Function, 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 AI Server Processors.

Chapter 14 and 15, to describe AI Server Processors sales channel, distributors, customers, research findings and conclusion.

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