

Global AI Server Power ICs 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 AI Server Power ICs market size was valued at US\$ 1621 million in 2025 and is forecast to a readjusted size of US\$ 5631 million by 2032 with a CAGR of 19.6% during review period.

AI Server Power ICs are specialized integrated circuits used for power conversion, voltage regulation, power distribution, monitoring, sequencing, and protection within AI servers. They provide stable and efficient power for graphics processing units, artificial intelligence accelerators, central processing units, high bandwidth memory, server memory, data processing units, networking devices, storage components, and other critical loads. Typical products include multiphase controllers, smart power stages, integrated direct current converters, point of load regulators, intermediate bus controllers, hot swap controllers, electronic fuses, power monitoring ICs, and sequencing ICs. These devices are designed to meet requirements for high power density, high conversion efficiency, fast transient response, precise voltage regulation, digital communication, and long term operational reliability. AI Server Power ICs typically cost a few dollars each, with gross margins usually between 50% and 60%.

The upstream supply chain of AI Server Power ICs mainly includes wafer materials, analog and mixed signal process technologies, power semiconductor processes, wafer fabrication, packaging substrates, lead frames, electronic design automation software, semiconductor equipment, and testing service providers. The midstream segment consists of power IC design companies, integrated device manufacturers, wafer foundries, packaging and testing providers, and power module manufacturers, covering chip design, wafer fabrication, advanced packaging, testing and validation, firmware development, and power module integration. Downstream customers include AI server

manufacturers, motherboard and accelerator card suppliers, graphics processor and artificial intelligence chip companies, cloud service providers, data center operators, and power system suppliers. End applications include artificial intelligence training servers, artificial intelligence inference servers, high performance computing servers, and other accelerated computing equipment.

The AI Server Power ICs market is being continuously driven by the expansion of artificial intelligence computing infrastructure, upgrades in accelerated computing platforms, and the evolution of data center power architectures. As the power consumption of graphics processing units, artificial intelligence accelerators, high bandwidth memory, and high speed interconnect devices continues to rise, AI servers require higher current delivery, greater power density, faster transient response, and more sophisticated power management. This trend is accelerating the development of multiphase controllers, smart power stages, point of load converters, hot swap controllers, and digital power monitoring ICs. Future market competition will increasingly focus on conversion efficiency, current handling capability, thermal performance, digital control accuracy, packaging integration, platform compatibility, and joint development capabilities with processor and server manufacturers.

This report is a detailed and comprehensive analysis for global AI Server Power ICs 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 AI Server Power ICs market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

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

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

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 Power ICs 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 MPS, Infineon Technologies, Texas Instruments, Renesas Electronics, Analog Devices, onsemi, STMicroelectronics, Alpha and Omega Semiconductor, Vishay Intertechnology, Richtek Technology, etc.

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

Market Segmentation

AI Server Power ICs 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

Multiphase Controllers

Integrated Power Stages

Others

Market segment by Power Conversion Stage

Input and Front-End Power Management ICs

Intermediate Bus Power ICs

Point-of-Load Power ICs

Auxiliary Power Management ICs

Market segment by Powered Load

GPU and AI Accelerator Power ICs

CPU Power ICs

Memory Power ICs

Others

Market segment by Application

GPU-based AI Servers

ASIC-based AI Servers

FPGA-based AI Servers

Others

Major players covered

MPS

Infineon Technologies

Texas Instruments

Renesas Electronics

Analog Devices

onsemi

STMicroelectronics

Alpha and Omega Semiconductor

Vishay Intertechnology

Richtek Technology

uPI Semi

Silergy

Shanghai Jingfeng Mingyuan

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 Power ICs product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AI Server Power ICs 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 AI Server Power ICs 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 AI Server Power ICs.

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

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