

Global AI Server Power Management 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 Management 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 Management 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 power sequencing ICs. These devices are designed to meet requirements for high power density, high conversion efficiency, fast transient response, precise voltage control, digital communication, and long term operational reliability. AI Server Power Management ICs typically cost a few dollars each, with gross margins usually between 50% and 60%.

The upstream supply chain of AI Server Power Management ICs includes silicon wafers and semiconductor materials, wafer fabrication, analog and mixed signal process technologies, power semiconductor processes, packaging substrates, lead frames, electronic design automation software, semiconductor equipment, and testing services. Midstream companies are responsible for power IC architecture design, wafer fabrication, advanced packaging, testing and validation, firmware development, and

power module integration. They also develop core power delivery, point of load power, and power path management solutions tailored to the requirements of GPU, dedicated AI accelerator, and FPGA platforms. Downstream customers mainly include AI chip companies, server manufacturers, motherboard and accelerator card suppliers, cloud service providers, data center operators, and power system suppliers. The products are ultimately used in AI servers and high performance computing systems built around GPU, ASIC, FPGA, and other accelerator architectures.

The AI Server Power Management 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 increase, AI servers require higher current delivery, greater power density, faster transient response, more precise voltage regulation, and more sophisticated digital power management. These requirements are accelerating the development of multiphase controllers, smart power stages, point of load converters, hot swap controllers, and power monitoring ICs. Future competition will primarily focus on conversion efficiency, current handling capability, control accuracy, thermal performance, packaging integration, system reliability, and joint development capabilities with processor platform and server manufacturers.

Report Scope

This report is a detailed and comprehensive analysis for global AI Server Power Management 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 Management 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 Management 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 Management 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 Management 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 Management 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 Management 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 Management 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 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)

Chapter Outline

Chapter 1, to describe AI Server Power Management ICs product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the AI Server Power Management 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 Management 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 Management 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 Management ICs.

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

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