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Global AI Server Power Management ICs Market Growth 2026-2032

https://marketpublishers.com/r/G5A7CE0D02E5EN.html
Date: October 2026
Pages: 113
Price: US$ 3,660.00 (Single User License)
ID: G5A7CE0D02E5EN

Abstracts

The global AI Server Power Management ICs market size is predicted to grow from US$ 1541 million in 2025 to US$ 5691 million in 2032; it is expected to grow at a CAGR of 20.9% from 2026 to 2032.

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

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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

LP Information, Inc. (LPI) ' newest research report, the “AI Server Power Management ICs Industry Forecast” looks at past sales and reviews total world AI Server Power Management ICs sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Server Power Management ICs sales for 2026 through 2032. With AI Server Power Management ICs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI Server Power Management ICs industry.

This Insight Report provides a comprehensive analysis of the global AI Server Power Management ICs 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 AI Server Power Management ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AI Server Power Management ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

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shaping the global outlook for AI Server Power Management ICs 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 AI Server Power Management ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Server Power Management ICs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Multiphase Controllers

Integrated Power Stages

Others

Segmentation by Power Conversion Stage:

Input and Front-End Power Management ICs

Intermediate Bus Power ICs

Point-of-Load Power ICs

Auxiliary Power Management ICs

Segmentation by Application:

GPU-based AI Servers

ASIC-based AI Servers

FPGA-based AI Servers

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Others

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

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Italy

Russia

Middle East & Africa

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.

MPS

Infineon Technologies

Texas Instruments

Renesas Electronics

Analog Devices

onsemi

STMicroelectronics

Alpha and Omega Semiconductor

Vishay Intertechnology

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Richtek Technology

uPI Semi

Silergy

Shanghai Jingfeng Mingyuan

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Server Power Management ICs market?

What factors are driving AI Server Power Management ICs market growth, globally and by region?

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

How do AI Server Power Management ICs market opportunities vary by end market size?

How does AI Server Power Management ICs break out by Type, by Application?

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