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Global Digital Power Controller for AI Server Market Growth 2026-2032

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Abstracts

The global Digital Power Controller for AI Server market size is predicted to grow from US$ 147 million in 2025 to US$ 625 million in 2032; it is expected to grow at a CAGR of 23.4% from 2026 to 2032.

A digital power controller for AI servers is a high-performance, highly integrated power management chip based on a digital signal processor or dedicated ASIC, specifically designed for AI computing servers. Its core function is to serve as the "intelligent brain" of the entire power supply system. Through real-time sampling, digital computation, and closed-loop control, it precisely manages the power supply (e.g., VCORE, VDD) for multi-phase (X-phase) CPUs, GPUs, ASICs, and other core computing units. It must meet the AI ??server's stringent requirements for ultra-high power density, extremely fast dynamic response (nanosecond level), ultra-high accuracy (millivolt level), multi-phase management, and intelligent power monitoring. It communicates with the baseboard management (BMC) via digital interfaces such as PMBus/I?C to implement power capping, fault prediction, and energy efficiency optimization. It serves as the "power command center" that ensures the stable release of AI computing power. By 2024, production of digital power controllers for AI servers will reach approximately 8.2 million units, with an average global market price of approximately US$15 per unit. The upstream supply chain comprises advanced wafer foundry and high-speed IP, the midstream focuses on complex digital control algorithms and multi-phase architecture design, and the downstream is comprised of high-end server and GPU accelerator card manufacturers. Production capacity is limited by the allocation of advanced process capacity. The gross profit margin is extremely high, approximately 60-70%, due to the extremely high technical barriers and its key role in AI computing efficiency.

The digital power controller market for AI servers is experiencing a period of robust

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growth, driven by the global AI computing arms race. Its prospects are deeply tied to the deployment of high-performance computing clusters, the demand for large-scale model training, and the widespread adoption of edge inference devices. These trends place unprecedented demands on chips for ultra-high control precision, ultra-fast dynamic response, and intelligent management capabilities. Leveraging its leading cloud computing giants, leading chip design companies, and active venture capital, the North American market maintains a dominant position at the source of technological innovation and the high-end market ecosystem, controlling the core value of the industry chain. The Asia-Pacific market, particularly Taiwan and mainland China, dominates production and large-scale applications, driven by their world-leading semiconductor manufacturing capabilities, massive data center construction demand, and well-developed electronics supply chains, making them the region with the strongest demand growth. European companies maintain their presence in specific industrial and scientific research applications, while the global innovation network exhibits a multi-polar, interconnected, and complementary structure. Open source ecosystems and standards alliances are accelerating technology diffusion and collaborative development.

Report Scope

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Digital Power Controller for AI Server and breaks down

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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 Digital Power Controller for AI Server.

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

Market Segmentation

Segmentation by Type:

DSP-Based Controller

ASIC-Based Controller

Segmentation by Application:

GPU Core Power Supply

CPU Core Power Supply

ASIC Core Power Supply

Others

This report also splits the market by region:

Americas

United States

Canada

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- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey

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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.

TI

??Infineon

MPS

??Analog Devices

??Microchip Technology?

Aura Semiconductor

JoulWatt Technology

Alpha and Omega Semiconductor

Renesas

Reed Semiconductor

Richtek Technology Corporation

Hynetek Semiconductor

3PEAK

Key Questions Addressed in this Report

What is the 10-year outlook for the global Digital Power Controller for AI Server

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market?

What factors are driving Digital Power Controller for AI Server market growth, globally and by region?

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

How do Digital Power Controller for AI Server market opportunities vary by end market size?

How does Digital Power Controller for AI Server break out by Type, by Application?

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