

Global AI Server Analog IC 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 Analog IC market size was valued at US\$ 3961 million in 2025 and is forecast to a readjusted size of US\$ 13269 million by 2032 with a CAGR of 17.4% during review period.

In 2025, global sales of AI Server Analog IC reached approximately 760 million units, with an average market price of about USD 5.07 unit, an annual production capacity of roughly 780 million units, and an industry-average gross margin of approximately 60%.

AI Server Analog ICs are high-performance analog or mixed-signal integrated circuits designed to convert, regulate, distribute, protect, monitor and sequence electrical power within artificial-intelligence training servers, inference servers, GPU or custom-ASIC accelerator cards, server motherboards and rack-level power architectures. The principal product forms include analog and digital multiphase PWM controllers, smart power stages, DrMOS devices, integrated voltage regulators, point-of-load DC-DC converters, hot-swap controllers, electronic fuses, power-path controllers, PMBus-compatible digital power controllers, power sequencers and monitors, current-sensing ICs, isolated gate drivers, and integrated power ICs used in server power-supply units, battery-backup units and intermediate-bus converters. Key performance requirements include high output-current capability, rapid transient response, conversion efficiency, power density, telemetry accuracy, scalable phase control, processor-platform compatibility, thermal performance and system-level reliability. The research scope focuses on the power-management semiconductor chain extending from the server power input and board-level distribution network to the final voltage rails supplying AI processors, CPUs, high-bandwidth memory, networking devices, storage components and other computational loads.

AI Server Analog ICs should be viewed as an application-defined semiconductor segment created by the rapid increase in processor power, transient current and rack-level power density rather than as a simple extension of conventional server PMIC demand. AI GPUs, custom accelerators and high-bandwidth memory require multiple low-voltage, high-current rails that must respond rapidly to highly variable computational workloads. As a result, multiphase controllers, smart power stages, DrMOS devices, integrated voltage regulators, point-of-load converters and precision power-monitoring ICs increasingly influence achievable computing performance, energy efficiency and system reliability. The appropriate market boundary therefore covers the control, conversion, protection, sequencing and monitoring semiconductor chain between the server power input and the final computational load. It should not combine all analog ICs or all power semiconductors into a single category.

The global supply structure consists of several distinct layers. Large diversified analog and power-semiconductor companies offer broad portfolios spanning input protection, digital control, voltage regulation, current sensing and high-voltage power conversion. Specialist server-power suppliers concentrate on multiphase regulation, smart power stages and processor-specific Vcore solutions, while Taiwanese companies retain deep experience in PC, GPU and motherboard power architectures. Mainland Chinese entrants are extending capabilities developed in consumer charging, industrial power and general-purpose DC-DC products into server DrMOS, digital multiphase control, hot-swap protection and 48-volt conversion. Nevertheless, the number of companies with general power-management products is substantially larger than the number with confirmed AI-server production business. Qualification cycles, proprietary processor power protocols, transient-performance requirements, packaging know-how and hyperscale-customer reliability standards continue to limit rapid substitution.

This report is a detailed and comprehensive analysis for global AI Server Analog IC 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 Analog IC market size and forecasts, in consumption value (\$ Million),

sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

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

Global AI Server Analog IC 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 Analog IC

- 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 Analog IC 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 Monolithic Power Systems, Infineon Technologies, Texas Instruments, Renesas Electronics, Analog Devices, Silergy, Richtek, uPI Semiconductor, Alpha and Omega Semiconductor, Vishay Intertechnology, etc.

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

Market Segmentation

AI Server Analog IC 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

PMIC

Retimer

BMC

Others

Market segment by Voltage

12 V Architecture

48 V Architecture

Market segment by Powered Load

GPU Power

CPU Power

Market segment by Application

AI Training Servers

AI Inference Servers

Others

Major players covered

Monolithic Power Systems

Infineon Technologies

Texas Instruments

Renesas Electronics

Analog Devices

Silergy

Richtek

uPI Semiconductor

Alpha and Omega Semiconductor

Vishay Intertechnology

onsemi

STMicroelectronics

Microchip Technology

MaxLinear

ROHM

Power Integrations

Navitas Semiconductor

NXP Semiconductors

Diodes Incorporated

ANPEC Electronics

JoulWatt Technology

Southchip Semiconductor

China Resources Microelectronics

Bright Power Semiconductor

Chipown Micro-electronics

Hynetek Semiconductor

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 Analog IC product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AI Server Analog IC 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 Analog IC 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 Analog IC.

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

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