

# Global AI Server Fan Driver Chip 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 Fan Driver Chip market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

AI server fan driver chips are key control chips in the cooling systems of AI server chassis. They precisely regulate fan speed by controlling PWM signals and fan motor drive current, thereby maintaining stable internal server temperatures and ensuring the reliable operation of high-heat computing units such as GPUs, TPUs, and ASICs. Industry forecasts indicate that global shipments of AI server fan driver chips will reach approximately 120 million units by 2024, with an average unit price of approximately \$2.5. A typical production line, including a wafer foundry and packaging/testing facilities, has an annual capacity of approximately 3 million chips. The upstream and downstream supply chains include upstream silicon wafer and semiconductor raw material suppliers, power transistor and MOSFET manufacturers, and packaging substrate and passive component suppliers. The midstream supply chain includes semiconductor design and chip manufacturing companies, such as chip companies specializing in motor drive and PWM control IP. The downstream supply chain includes server OEMs, cooling module suppliers, AI server foundries, fan manufacturers, and system integrators. Server OEMs typically have gross margins between 20% and 30%. The cost structure primarily consists of wafer manufacturing costs, followed by intellectual property licensing costs, packaging and testing costs, wafer processing energy and labor costs, and quality inspection and reliability testing fees. AI server fan driver chips can be categorized by the number of phases (single-phase and three-phase), by supported functions (LDO and non-LDO power supply drivers), by maximum drive voltage (low-voltage (2-24V), medium-voltage (24-48V), and high-voltage (greater than 48V) chips), and by

application scenario (GPU server-specific chips, TPU server-specific chips, ASIC server-specific chips, and general-purpose chips). Downstream demand includes massively parallel computer clusters, AI training and inference servers, cloud computing data centers, edge computing nodes, high-performance servers, deep learning workstations, and high-performance network storage devices. Downstream customers include cloud service operators, large data center builders, AI training platform deployment companies, server original design manufacturers (ODMs), and fan and heat dissipation module suppliers. From a business opportunity perspective, the market is driven by multiple factors. First, policies and initiatives implemented by various countries to promote energy-saving and environmentally friendly data center green computing standards have increased the demand for high-efficiency fan driver chips. Secondly, technological innovation has made driver chips with higher integration, lower energy consumption, and more refined temperature control algorithms highly sought after, driving product upgrades. Finally, changing consumer and customer demands, such as the continued growth of AI training workloads and increased requirements for system reliability and stability, have prompted server cooling solutions to evolve from simple air cooling to intelligent air-cooling and liquid-cooling hybrid solutions, thus continuously increasing the demand for fan driver chips, the core control unit of the heat dissipation chain. In conclusion, driven by data center expansion, improved AI computing power, and iterative improvements in cooling technology, the AI server fan driver chip market will continue to grow, providing long-term development opportunities for related chip design companies and system integrators.

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

Global AI Server Fan Driver Chip 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 Fan Driver Chip 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 Fan Driver Chip 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 Fan Driver Chip

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 Fan Driver Chip 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 Nuvoton, Melexis, Microchip, Minebea Mitsumi, RICHTEK, Silergy Technology, Shanghai Bright Power Semiconductor, Halo Microelectronics, Fortior Technology (Shenzhen), Shenzhen SGKS Technology, etc.

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

### **Market Segmentation**

AI Server Fan Driver Chip 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

Single Phase Driver Chip

Three Phase Driver Chip

Market segment by Maximum Voltage

Maximum Voltage: 12?24V

Maximum Voltage: 24?48V

Maximum Voltage: Above 48V

Market segment by LDO

Supports LDO

Does Not Support LDO

Market segment by Application

GPU Server

TPU Server

ASIC Server

Others

Major players covered

Nuvoton

Melexis

Microchip

Minebea Mitsumi

RICHTEK

Silergy Technology

Shanghai Bright Power Semiconductor

Halo Microelectronics

Fortior Technology (Shenzhen)

Shenzhen SGKS Technology

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 Fan Driver Chip product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AI Server Fan Driver Chip 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 Fan Driver Chip 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 Fan Driver Chip.

Chapter 14 and 15, to describe AI Server Fan Driver Chip sales channel, distributors, customers, research findings and conclusion.

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