

Global 48V 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 48V 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.

The 48V AI server fan driver chip is a semiconductor integrated circuit specifically designed for controlling high-voltage fan motors inside AI servers. This chip can drive brushless DC fans or three-phase fan motors under a 48V power supply architecture, achieving efficient heat dissipation. Due to the rapid increase in computing power and power consumption of AI servers, the requirements for heat dissipation performance have significantly increased, thus the demand for 48V fan drive solutions continues to grow. In 2024, global sales of such chips were approximately 18 million units, with an average unit price of approximately \$20 and a single-line monthly production capacity of approximately 200,000 units. In terms of upstream and downstream companies, the upstream mainly belongs to the semiconductor design and manufacturing field, including dedicated control IP designers, wafer foundries and packaging and testing service providers, and power semiconductor and power management chip manufacturers; the downstream mainly consists of AI server manufacturers, large data center operators, and heat dissipation system integrators. Gross profit margins are typically between 35% and 45%. The product cost structure mainly consists of wafer manufacturing costs, packaging and testing costs, power device and passive component costs, and R&D and design investment. Products can be categorized by parameters into types with varying voltage adaptability, such as those supporting only 48V input and those supporting higher voltage withstand and stronger overvoltage protection. They can also be categorized by control algorithm, such as sensorless FOC control, square wave control, and highly integrated DC-DC converters. On the demand

side, downstream needs include high-efficiency temperature-controlled fan drivers, adjustable speed control, high-reliability protection functions, low electromagnetic interference design, and interfaces compatible with various fan topologies. Downstream customers include hyperscale cloud service providers, enterprise-level AI server manufacturers, data center operation and maintenance service providers, and high-performance computing platform integrators. In terms of business opportunities, policy drivers include countries promoting data center energy efficiency standards and green computing infrastructure upgrades; technological innovation drivers include more efficient control algorithms, more integrated power management, and more intelligent fault diagnosis functions; and changing consumer demands reflect customers' continued pursuit of solutions with higher heat dissipation efficiency, lower energy consumption, and longer lifecycles. These factors collectively drive the growth potential of 48V AI server fan driver chips.

This report is a detailed and comprehensive analysis for global 48V 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 48V 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 48V 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 48V 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 48V 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:

Global 48V AI Server Fan Driver Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 48V 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 48V 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, RICHTEK, Silergy Technology, Shanghai Bright Power Semiconductor, Halo Microelectronics, Fortior Technology (Shenzhen), etc.

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

Market Segmentation

48V 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

HQFN-32 Package

QFN Package

Other

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

RICHTEK

Silergy Technology

Shanghai Bright Power Semiconductor

Halo Microelectronics

Fortior Technology (Shenzhen)

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 48V AI Server Fan Driver Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 48V AI Server Fan Driver Chip, with price, sales quantity, revenue, and global market share of 48V AI Server Fan Driver Chip from 2021 to 2026.

Chapter 3, the 48V 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 48V 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 48V 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 48V AI Server Fan Driver Chip.

Chapter 14 and 15, to describe 48V AI Server Fan Driver Chip sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global 48V AI Server Fan Driver Chip Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Single Phase Driver Chip

1.3.3 Three Phase Driver Chip

1.4 Market Analysis by Maximum Voltage

1.4.1 Overview: Global 48V AI Server Fan Driver Chip Consumption Value by Maximum Voltage: 2021 Versus 2025 Versus 2032

1.4.2 HQFN-32 Package

1.4.3 QFN Package

1.4.4 Other

1.5 Market Analysis by LDO

1.5.1 Overview: Global 48V AI Server Fan Driver Chip Consumption Value by LDO: 2021 Versus 2025 Versus 2032

1.5.2 Supports LDO

1.5.3 Does Not Support LDO

1.6 Market Analysis by Application

1.6.1 Overview: Global 48V AI Server Fan Driver Chip Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 GPU Server

1.6.3 TPU Server

1.6.4 ASIC Server

1.6.5 Others

1.7 Global 48V AI Server Fan Driver Chip Market Size & Forecast

1.7.1 Global 48V AI Server Fan Driver Chip Consumption Value (2021 & 2025 & 2032)

1.7.2 Global 48V AI Server Fan Driver Chip Sales Quantity (2021-2032)

1.7.3 Global 48V AI Server Fan Driver Chip Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Nuvoton

2.1.1 Nuvoton Details

2.1.2 Nuvoton Major Business

- 2.1.3 Nuvoton 48V AI Server Fan Driver Chip Product and Services
- 2.1.4 Nuvoton 48V AI Server Fan Driver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Nuvoton Recent Developments/Updates
- 2.2 Melexis
 - 2.2.1 Melexis Details
 - 2.2.2 Melexis Major Business
 - 2.2.3 Melexis 48V AI Server Fan Driver Chip Product and Services
 - 2.2.4 Melexis 48V AI Server Fan Driver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 Melexis Recent Developments/Updates
- 2.3 Microchip
 - 2.3.1 Microchip Details
 - 2.3.2 Microchip Major Business
 - 2.3.3 Microchip 48V AI Server Fan Driver Chip Product and Services
 - 2.3.4 Microchip 48V AI Server Fan Driver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Microchip Recent Developments/Updates
- 2.4 RICHTEK
 - 2.4.1 RICHTEK Details
 - 2.4.2 RICHTEK Major Business
 - 2.4.3 RICHTEK 48V AI Server Fan Driver Chip Product and Services
 - 2.4.4 RICHTEK 48V AI Server Fan Driver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 RICHTEK Recent Developments/Updates
- 2.5 Silergy Technology
 - 2.5.1 Silergy Technology Details
 - 2.5.2 Silergy Technology Major Business
 - 2.5.3 Silergy Technology 48V AI Server Fan Driver Chip Product and Services
 - 2.5.4 Silergy Technology 48V AI Server Fan Driver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Silergy Technology Recent Developments/Updates
- 2.6 Shanghai Bright Power Semiconductor
 - 2.6.1 Shanghai Bright Power Semiconductor Details
 - 2.6.2 Shanghai Bright Power Semiconductor Major Business
 - 2.6.3 Shanghai Bright Power Semiconductor 48V AI Server Fan Driver Chip Product and Services
 - 2.6.4 Shanghai Bright Power Semiconductor 48V AI Server Fan Driver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.6.5 Shanghai Bright Power Semiconductor Recent Developments/Updates
- 2.7 Halo Microelectronics
 - 2.7.1 Halo Microelectronics Details
 - 2.7.2 Halo Microelectronics Major Business
 - 2.7.3 Halo Microelectronics 48V AI Server Fan Driver Chip Product and Services
 - 2.7.4 Halo Microelectronics 48V AI Server Fan Driver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Halo Microelectronics Recent Developments/Updates
- 2.8 Fortior Technology (Shenzhen)
 - 2.8.1 Fortior Technology (Shenzhen) Details
 - 2.8.2 Fortior Technology (Shenzhen) Major Business
 - 2.8.3 Fortior Technology (Shenzhen) 48V AI Server Fan Driver Chip Product and Services
 - 2.8.4 Fortior Technology (Shenzhen) 48V AI Server Fan Driver Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Fortior Technology (Shenzhen) Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: 48V AI SERVER FAN DRIVER CHIP BY MANUFACTURER

- 3.1 Global 48V AI Server Fan Driver Chip Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global 48V AI Server Fan Driver Chip Revenue by Manufacturer (2021-2026)
- 3.3 Global 48V AI Server Fan Driver Chip Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of 48V AI Server Fan Driver Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 48V AI Server Fan Driver Chip Manufacturer Market Share in 2025
 - 3.4.3 Top 6 48V AI Server Fan Driver Chip Manufacturer Market Share in 2025
- 3.5 48V AI Server Fan Driver Chip Market: Overall Company Footprint Analysis
 - 3.5.1 48V AI Server Fan Driver Chip Market: Region Footprint
 - 3.5.2 48V AI Server Fan Driver Chip Market: Company Product Type Footprint
 - 3.5.3 48V AI Server Fan Driver Chip Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global 48V AI Server Fan Driver Chip Market Size by Region
 - 4.1.1 Global 48V AI Server Fan Driver Chip Sales Quantity by Region (2021-2032)

4.1.2 Global 48V AI Server Fan Driver Chip Consumption Value by Region (2021-2032)

4.1.3 Global 48V AI Server Fan Driver Chip Average Price by Region (2021-2032)

4.2 North America 48V AI Server Fan Driver Chip Consumption Value (2021-2032)

4.3 Europe 48V AI Server Fan Driver Chip Consumption Value (2021-2032)

4.4 Asia-Pacific 48V AI Server Fan Driver Chip Consumption Value (2021-2032)

4.5 South America 48V AI Server Fan Driver Chip Consumption Value (2021-2032)

4.6 Middle East & Africa 48V AI Server Fan Driver Chip Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2032)

5.2 Global 48V AI Server Fan Driver Chip Consumption Value by Type (2021-2032)

5.3 Global 48V AI Server Fan Driver Chip Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2032)

6.2 Global 48V AI Server Fan Driver Chip Consumption Value by Application (2021-2032)

6.3 Global 48V AI Server Fan Driver Chip Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2032)

7.2 North America 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2032)

7.3 North America 48V AI Server Fan Driver Chip Market Size by Country

7.3.1 North America 48V AI Server Fan Driver Chip Sales Quantity by Country (2021-2032)

7.3.2 North America 48V AI Server Fan Driver Chip Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2032)
- 8.2 Europe 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2032)
- 8.3 Europe 48V AI Server Fan Driver Chip Market Size by Country
 - 8.3.1 Europe 48V AI Server Fan Driver Chip Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe 48V AI Server Fan Driver Chip Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific 48V AI Server Fan Driver Chip Market Size by Region
 - 9.3.1 Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific 48V AI Server Fan Driver Chip Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2032)
- 10.2 South America 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2032)
- 10.3 South America 48V AI Server Fan Driver Chip Market Size by Country
 - 10.3.1 South America 48V AI Server Fan Driver Chip Sales Quantity by Country (2021-2032)
 - 10.3.2 South America 48V AI Server Fan Driver Chip Consumption Value by Country (2021-2032)

- 10.3.3 Brazil Market Size and Forecast (2021-2032)
- 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa 48V AI Server Fan Driver Chip Market Size by Country
 - 11.3.1 Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa 48V AI Server Fan Driver Chip Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 48V AI Server Fan Driver Chip Market Drivers
- 12.2 48V AI Server Fan Driver Chip Market Restraints
- 12.3 48V AI Server Fan Driver Chip Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of 48V AI Server Fan Driver Chip and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of 48V AI Server Fan Driver Chip
- 13.3 48V AI Server Fan Driver Chip Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 48V AI Server Fan Driver Chip Typical Distributors

14.3 48V AI Server Fan Driver Chip Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global 48V AI Server Fan Driver Chip Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 48V AI Server Fan Driver Chip Consumption Value by Maximum Voltage, (USD Million), 2021 & 2025 & 2032

Table 3. Global 48V AI Server Fan Driver Chip Consumption Value by LDO, (USD Million), 2021 & 2025 & 2032

Table 4. Global 48V AI Server Fan Driver Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Nuvoton Basic Information, Manufacturing Base and Competitors

Table 6. Nuvoton Major Business

Table 7. Nuvoton 48V AI Server Fan Driver Chip Product and Services

Table 8. Nuvoton 48V AI Server Fan Driver Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Nuvoton Recent Developments/Updates

Table 10. Melexis Basic Information, Manufacturing Base and Competitors

Table 11. Melexis Major Business

Table 12. Melexis 48V AI Server Fan Driver Chip Product and Services

Table 13. Melexis 48V AI Server Fan Driver Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Melexis Recent Developments/Updates

Table 15. Microchip Basic Information, Manufacturing Base and Competitors

Table 16. Microchip Major Business

Table 17. Microchip 48V AI Server Fan Driver Chip Product and Services

Table 18. Microchip 48V AI Server Fan Driver Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Microchip Recent Developments/Updates

Table 20. RICHTEK Basic Information, Manufacturing Base and Competitors

Table 21. RICHTEK Major Business

Table 22. RICHTEK 48V AI Server Fan Driver Chip Product and Services

Table 23. RICHTEK 48V AI Server Fan Driver Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. RICHTEK Recent Developments/Updates

Table 25. Silergy Technology Basic Information, Manufacturing Base and Competitors

Table 26. Silergy Technology Major Business

Table 27. Silergy Technology 48V AI Server Fan Driver Chip Product and Services

Table 28. Silergy Technology 48V AI Server Fan Driver Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Silergy Technology Recent Developments/Updates

Table 30. Shanghai Bright Power Semiconductor Basic Information, Manufacturing Base and Competitors

Table 31. Shanghai Bright Power Semiconductor Major Business

Table 32. Shanghai Bright Power Semiconductor 48V AI Server Fan Driver Chip Product and Services

Table 33. Shanghai Bright Power Semiconductor 48V AI Server Fan Driver Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Shanghai Bright Power Semiconductor Recent Developments/Updates

Table 35. Halo Microelectronics Basic Information, Manufacturing Base and Competitors

Table 36. Halo Microelectronics Major Business

Table 37. Halo Microelectronics 48V AI Server Fan Driver Chip Product and Services

Table 38. Halo Microelectronics 48V AI Server Fan Driver Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Halo Microelectronics Recent Developments/Updates

Table 40. Fortior Technology (Shenzhen) Basic Information, Manufacturing Base and Competitors

Table 41. Fortior Technology (Shenzhen) Major Business

Table 42. Fortior Technology (Shenzhen) 48V AI Server Fan Driver Chip Product and Services

Table 43. Fortior Technology (Shenzhen) 48V AI Server Fan Driver Chip Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Fortior Technology (Shenzhen) Recent Developments/Updates

Table 45. Global 48V AI Server Fan Driver Chip Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 46. Global 48V AI Server Fan Driver Chip Revenue by Manufacturer (2021-2026) & (USD Million)

Table 47. Global 48V AI Server Fan Driver Chip Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 48. Market Position of Manufacturers in 48V AI Server Fan Driver Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 49. Head Office and 48V AI Server Fan Driver Chip Production Site of Key

Manufacturer

Table 50. 48V AI Server Fan Driver Chip Market: Company Product Type Footprint

Table 51. 48V AI Server Fan Driver Chip Market: Company Product Application Footprint

Table 52. 48V AI Server Fan Driver Chip New Market Entrants and Barriers to Market Entry

Table 53. 48V AI Server Fan Driver Chip Mergers, Acquisition, Agreements, and Collaborations

Table 54. Global 48V AI Server Fan Driver Chip Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 55. Global 48V AI Server Fan Driver Chip Sales Quantity by Region (2021-2026) & (K Units)

Table 56. Global 48V AI Server Fan Driver Chip Sales Quantity by Region (2027-2032) & (K Units)

Table 57. Global 48V AI Server Fan Driver Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 58. Global 48V AI Server Fan Driver Chip Consumption Value by Region (2027-2032) & (USD Million)

Table 59. Global 48V AI Server Fan Driver Chip Average Price by Region (2021-2026) & (US\$/Unit)

Table 60. Global 48V AI Server Fan Driver Chip Average Price by Region (2027-2032) & (US\$/Unit)

Table 61. Global 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 62. Global 48V AI Server Fan Driver Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 63. Global 48V AI Server Fan Driver Chip Consumption Value by Type (2021-2026) & (USD Million)

Table 64. Global 48V AI Server Fan Driver Chip Consumption Value by Type (2027-2032) & (USD Million)

Table 65. Global 48V AI Server Fan Driver Chip Average Price by Type (2021-2026) & (US\$/Unit)

Table 66. Global 48V AI Server Fan Driver Chip Average Price by Type (2027-2032) & (US\$/Unit)

Table 67. Global 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 68. Global 48V AI Server Fan Driver Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 69. Global 48V AI Server Fan Driver Chip Consumption Value by Application

(2021-2026) & (USD Million)

Table 70. Global 48V AI Server Fan Driver Chip Consumption Value by Application

(2027-2032) & (USD Million)

Table 71. Global 48V AI Server Fan Driver Chip Average Price by Application

(2021-2026) & (US\$/Unit)

Table 72. Global 48V AI Server Fan Driver Chip Average Price by Application

(2027-2032) & (US\$/Unit)

Table 73. North America 48V AI Server Fan Driver Chip Sales Quantity by Type

(2021-2026) & (K Units)

Table 74. North America 48V AI Server Fan Driver Chip Sales Quantity by Type

(2027-2032) & (K Units)

Table 75. North America 48V AI Server Fan Driver Chip Sales Quantity by Application

(2021-2026) & (K Units)

Table 76. North America 48V AI Server Fan Driver Chip Sales Quantity by Application

(2027-2032) & (K Units)

Table 77. North America 48V AI Server Fan Driver Chip Sales Quantity by Country

(2021-2026) & (K Units)

Table 78. North America 48V AI Server Fan Driver Chip Sales Quantity by Country

(2027-2032) & (K Units)

Table 79. North America 48V AI Server Fan Driver Chip Consumption Value by Country

(2021-2026) & (USD Million)

Table 80. North America 48V AI Server Fan Driver Chip Consumption Value by Country

(2027-2032) & (USD Million)

Table 81. Europe 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2026) &

(K Units)

Table 82. Europe 48V AI Server Fan Driver Chip Sales Quantity by Type (2027-2032) &

(K Units)

Table 83. Europe 48V AI Server Fan Driver Chip Sales Quantity by Application

(2021-2026) & (K Units)

Table 84. Europe 48V AI Server Fan Driver Chip Sales Quantity by Application

(2027-2032) & (K Units)

Table 85. Europe 48V AI Server Fan Driver Chip Sales Quantity by Country

(2021-2026) & (K Units)

Table 86. Europe 48V AI Server Fan Driver Chip Sales Quantity by Country

(2027-2032) & (K Units)

Table 87. Europe 48V AI Server Fan Driver Chip Consumption Value by Country

(2021-2026) & (USD Million)

Table 88. Europe 48V AI Server Fan Driver Chip Consumption Value by Country

(2027-2032) & (USD Million)

Table 89. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 90. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 91. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 92. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 93. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Region (2021-2026) & (K Units)

Table 94. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity by Region (2027-2032) & (K Units)

Table 95. Asia-Pacific 48V AI Server Fan Driver Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 96. Asia-Pacific 48V AI Server Fan Driver Chip Consumption Value by Region (2027-2032) & (USD Million)

Table 97. South America 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 98. South America 48V AI Server Fan Driver Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 99. South America 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 100. South America 48V AI Server Fan Driver Chip Sales Quantity by Application (2027-2032) & (K Units)

Table 101. South America 48V AI Server Fan Driver Chip Sales Quantity by Country (2021-2026) & (K Units)

Table 102. South America 48V AI Server Fan Driver Chip Sales Quantity by Country (2027-2032) & (K Units)

Table 103. South America 48V AI Server Fan Driver Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 104. South America 48V AI Server Fan Driver Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by Type (2021-2026) & (K Units)

Table 106. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by Type (2027-2032) & (K Units)

Table 107. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by Application (2021-2026) & (K Units)

Table 108. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by

Application (2027-2032) & (K Units)

Table 109. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by Country (2021-2026) & (K Units)

Table 110. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity by Country (2027-2032) & (K Units)

Table 111. Middle East & Africa 48V AI Server Fan Driver Chip Consumption Value by Country (2021-2026) & (USD Million)

Table 112. Middle East & Africa 48V AI Server Fan Driver Chip Consumption Value by Country (2027-2032) & (USD Million)

Table 113. 48V AI Server Fan Driver Chip Raw Material

Table 114. Key Manufacturers of 48V AI Server Fan Driver Chip Raw Materials

Table 115. 48V AI Server Fan Driver Chip Typical Distributors

Table 116. 48V AI Server Fan Driver Chip Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. 48V AI Server Fan Driver Chip Picture
- Figure 2. Global 48V AI Server Fan Driver Chip Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global 48V AI Server Fan Driver Chip Revenue Market Share by Type in 2025
- Figure 4. Single Phase Driver Chip Examples
- Figure 5. Three Phase Driver Chip Examples
- Figure 6. Global 48V AI Server Fan Driver Chip Revenue by Maximum Voltage, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global 48V AI Server Fan Driver Chip Revenue Market Share by Maximum Voltage in 2025
- Figure 8. HQFN-32 Package Examples
- Figure 9. QFN Package Examples
- Figure 10. Other Examples
- Figure 11. Global 48V AI Server Fan Driver Chip Revenue by LDO, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global 48V AI Server Fan Driver Chip Revenue Market Share by LDO in 2025
- Figure 13. Supports LDO Examples
- Figure 14. Does Not Support LDO Examples
- Figure 15. Global 48V AI Server Fan Driver Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 16. Global 48V AI Server Fan Driver Chip Revenue Market Share by Application in 2025
- Figure 17. GPU Server Examples
- Figure 18. TPU Server Examples
- Figure 19. ASIC Server Examples
- Figure 20. Others Examples
- Figure 21. Global 48V AI Server Fan Driver Chip Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 22. Global 48V AI Server Fan Driver Chip Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 23. Global 48V AI Server Fan Driver Chip Sales Quantity (2021-2032) & (K Units)
- Figure 24. Global 48V AI Server Fan Driver Chip Price (2021-2032) & (US\$/Unit)
- Figure 25. Global 48V AI Server Fan Driver Chip Sales Quantity Market Share by

Manufacturer in 2025

Figure 26. Global 48V AI Server Fan Driver Chip Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of 48V AI Server Fan Driver Chip by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 48V AI Server Fan Driver Chip Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 48V AI Server Fan Driver Chip Manufacturer (Revenue) Market Share in 2025

Figure 30. Global 48V AI Server Fan Driver Chip Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global 48V AI Server Fan Driver Chip Consumption Value Market Share by Region (2021-2032)

Figure 32. North America 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 35. South America 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 37. Global 48V AI Server Fan Driver Chip Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global 48V AI Server Fan Driver Chip Consumption Value Market Share by Type (2021-2032)

Figure 39. Global 48V AI Server Fan Driver Chip Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global 48V AI Server Fan Driver Chip Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global 48V AI Server Fan Driver Chip Revenue Market Share by Application (2021-2032)

Figure 42. Global 48V AI Server Fan Driver Chip Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America 48V AI Server Fan Driver Chip Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America 48V AI Server Fan Driver Chip Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America 48V AI Server Fan Driver Chip Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America 48V AI Server Fan Driver Chip Consumption Value Market Share by Country (2021-2032)

Figure 47. United States 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe 48V AI Server Fan Driver Chip Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe 48V AI Server Fan Driver Chip Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe 48V AI Server Fan Driver Chip Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe 48V AI Server Fan Driver Chip Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 55. France 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific 48V AI Server Fan Driver Chip Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific 48V AI Server Fan Driver Chip Consumption Value Market Share by Region (2021-2032)

Figure 63. China 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan 48V AI Server Fan Driver Chip Consumption Value (2021-2032) &

(USD Million)

Figure 65. South Korea 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 66. India 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 69. South America 48V AI Server Fan Driver Chip Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America 48V AI Server Fan Driver Chip Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America 48V AI Server Fan Driver Chip Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America 48V AI Server Fan Driver Chip Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa 48V AI Server Fan Driver Chip Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa 48V AI Server Fan Driver Chip Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa 48V AI Server Fan Driver Chip Consumption Value (2021-2032) & (USD Million)

Figure 83. 48V AI Server Fan Driver Chip Market Drivers

Figure 84. 48V AI Server Fan Driver Chip Market Restraints

Figure 85. 48V AI Server Fan Driver Chip Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of 48V AI Server Fan Driver Chip in 2025

Figure 88. Manufacturing Process Analysis of 48V AI Server Fan Driver Chip

Figure 89. 48V AI Server Fan Driver Chip Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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