

Global AI Server MOSFET Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G27913EAA853EN.html>

Date: June 2026

Pages: 138

Price: US\$ 3,480.00 (Single User License)

ID: G27913EAA853EN

Abstracts

According to our (Global Info Research) latest study, the global AI Server MOSFET market size was valued at US\$ 1037 million in 2025 and is forecast to a readjusted size of US\$ 4677 million by 2032 with a CAGR of 22.0% during review period.

In 2025, global AI Server MOSFET production reached approximately 991.61 million units with average price of 1.01 USD per unit.

AI Server MOSFET refers to power semiconductor devices used in AI servers for power conversion, power distribution, and load management. Their core function is to enable high-frequency switching, energy conversion, and system-level efficiency improvement. Key application points include PSUs, battery backup units, 48V power distribution, hot-swap and OR-ing protection, intermediate bus conversion, and VRM stages for CPUs, GPUs, ASICs, and HBM-related power rails. By product form, they can be divided into discrete MOSFETs, DrMOS, and smart power stages; by material, silicon-based MOSFETs still dominate, while SiC and GaN are gradually entering selected high-voltage and high-efficiency scenarios. Compared with conventional servers, AI servers feature much higher power density and stricter transient response requirements, which place tighter demands on RDS(on), switching loss, thermal performance, and package-level consistency.

The upstream of the AI Server MOSFET industry chain mainly includes wafer fabrication, epitaxial materials, metal targets, leadframes, packaging substrates, test equipment, and EDA/IP infrastructure. Among these, wafer process technology, packaging materials, and thermal management capability directly influence device performance and cost. The midstream consists of MOSFET design, manufacturing, and

packaging/testing players, including both IDM companies and fabless firms relying on outsourced foundry and OSAT partners. Their product portfolios range from low-voltage synchronous rectification MOSFETs to medium- and high-voltage devices used in 48V server architectures. Downstream participants include power module vendors, server PSU suppliers, motherboard and accelerator card makers, ODM/OEM manufacturers, and cloud or hyperscale data center operators. Overall, the increasing need for high-efficiency power delivery in AI servers means MOSFETs are no longer just standalone components, but are becoming deeply integrated into server power architecture, thermal design, and platform-level validation systems.

The MOSFET market for AI servers is experiencing a period of robust growth, driven by global investment in AI computing power. 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 switching frequencies, extremely low conduction losses, and superior thermal performance. 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 technological influence in specific industrial and automotive 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.

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

Global AI Server MOSFET 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 MOSFET 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 MOSFET 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 MOSFET

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 MOSFET 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 Infineon Technologies, onsemi, Vishay, Alpha & Omega Semiconductor, Nexperia, STMicroelectronics, Wolfspeed, Monolithic Power Systems, China Resources Microelectronics Limited, Wuxi NCE Power Co., Ltd, etc.

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

Market Segmentation

AI Server MOSFET 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

Si MOSFET

SiC MOSFET

GaN MOSFET

Market segment by Structure

Discrete MOSFET

DRMOS

Market segment by Voltage

High-voltage Section

Low-voltage Section

Market segment by Application

PSU

Hot-swap

CPU/GPU VRM

Others

Major players covered

Infineon Technologies

onsemi

Vishay

Alpha & Omega Semiconductor

Nexperia

STMicroelectronics

Wolfspeed

Monolithic Power Systems

China Resources Microelectronics Limited

Wuxi NCE Power Co., Ltd

Advanced Power Electronics Co., Ltd.

TI

JoulWatt

ROHM

Yangjie Electronic Technology Co., Ltd.

Navitas

PANJIT International Inc

Suzhou Oriental Semiconductor Company Limited

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 MOSFET product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the AI Server MOSFET 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 MOSFET 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

MOSFET.

Chapter 14 and 15, to describe AI Server MOSFET 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 AI Server MOSFET Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Si MOSFET

1.3.3 SiC MOSFET

1.3.4 GaN MOSFET

1.4 Market Analysis by Structure

1.4.1 Overview: Global AI Server MOSFET Consumption Value by Structure: 2021 Versus 2025 Versus 2032

1.4.2 Discrete MOSFET

1.4.3 DRMOS

1.5 Market Analysis by Voltage

1.5.1 Overview: Global AI Server MOSFET Consumption Value by Voltage: 2021 Versus 2025 Versus 2032

1.5.2 High-voltage Section

1.5.3 Low-voltage Section

1.6 Market Analysis by Application

1.6.1 Overview: Global AI Server MOSFET Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 PSU

1.6.3 Hot-swap

1.6.4 CPU/GPU VRM

1.6.5 Others

1.7 Global AI Server MOSFET Market Size & Forecast

1.7.1 Global AI Server MOSFET Consumption Value (2021 & 2025 & 2032)

1.7.2 Global AI Server MOSFET Sales Quantity (2021-2032)

1.7.3 Global AI Server MOSFET Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Infineon Technologies

2.1.1 Infineon Technologies Details

2.1.2 Infineon Technologies Major Business

- 2.1.3 Infineon Technologies AI Server MOSFET Product and Services
- 2.1.4 Infineon Technologies AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Infineon Technologies Recent Developments/Updates
- 2.2 onsemi
 - 2.2.1 onsemi Details
 - 2.2.2 onsemi Major Business
 - 2.2.3 onsemi AI Server MOSFET Product and Services
 - 2.2.4 onsemi AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 onsemi Recent Developments/Updates
- 2.3 Vishay
 - 2.3.1 Vishay Details
 - 2.3.2 Vishay Major Business
 - 2.3.3 Vishay AI Server MOSFET Product and Services
 - 2.3.4 Vishay AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Vishay Recent Developments/Updates
- 2.4 Alpha & Omega Semiconductor
 - 2.4.1 Alpha & Omega Semiconductor Details
 - 2.4.2 Alpha & Omega Semiconductor Major Business
 - 2.4.3 Alpha & Omega Semiconductor AI Server MOSFET Product and Services
 - 2.4.4 Alpha & Omega Semiconductor AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Alpha & Omega Semiconductor Recent Developments/Updates
- 2.5 Nexperia
 - 2.5.1 Nexperia Details
 - 2.5.2 Nexperia Major Business
 - 2.5.3 Nexperia AI Server MOSFET Product and Services
 - 2.5.4 Nexperia AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Nexperia Recent Developments/Updates
- 2.6 STMicroelectronics
 - 2.6.1 STMicroelectronics Details
 - 2.6.2 STMicroelectronics Major Business
 - 2.6.3 STMicroelectronics AI Server MOSFET Product and Services
 - 2.6.4 STMicroelectronics AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 STMicroelectronics Recent Developments/Updates

2.7 Wolfspeed

2.7.1 Wolfspeed Details

2.7.2 Wolfspeed Major Business

2.7.3 Wolfspeed AI Server MOSFET Product and Services

2.7.4 Wolfspeed AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Wolfspeed Recent Developments/Updates

2.8 Monolithic Power Systems

2.8.1 Monolithic Power Systems Details

2.8.2 Monolithic Power Systems Major Business

2.8.3 Monolithic Power Systems AI Server MOSFET Product and Services

2.8.4 Monolithic Power Systems AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Monolithic Power Systems Recent Developments/Updates

2.9 China Resources Microelectronics Limited

2.9.1 China Resources Microelectronics Limited Details

2.9.2 China Resources Microelectronics Limited Major Business

2.9.3 China Resources Microelectronics Limited AI Server MOSFET Product and Services

2.9.4 China Resources Microelectronics Limited AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 China Resources Microelectronics Limited Recent Developments/Updates

2.10 Wuxi NCE Power Co., Ltd

2.10.1 Wuxi NCE Power Co., Ltd Details

2.10.2 Wuxi NCE Power Co., Ltd Major Business

2.10.3 Wuxi NCE Power Co., Ltd AI Server MOSFET Product and Services

2.10.4 Wuxi NCE Power Co., Ltd AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Wuxi NCE Power Co., Ltd Recent Developments/Updates

2.11 Advanced Power Electronics Co., Ltd.

2.11.1 Advanced Power Electronics Co., Ltd. Details

2.11.2 Advanced Power Electronics Co., Ltd. Major Business

2.11.3 Advanced Power Electronics Co., Ltd. AI Server MOSFET Product and Services

2.11.4 Advanced Power Electronics Co., Ltd. AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Advanced Power Electronics Co., Ltd. Recent Developments/Updates

2.12 TI

2.12.1 TI Details

- 2.12.2 TI Major Business
- 2.12.3 TI AI Server MOSFET Product and Services
- 2.12.4 TI AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 TI Recent Developments/Updates
- 2.13 JoulWatt
 - 2.13.1 JoulWatt Details
 - 2.13.2 JoulWatt Major Business
 - 2.13.3 JoulWatt AI Server MOSFET Product and Services
 - 2.13.4 JoulWatt AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 JoulWatt Recent Developments/Updates
- 2.14 ROHM
 - 2.14.1 ROHM Details
 - 2.14.2 ROHM Major Business
 - 2.14.3 ROHM AI Server MOSFET Product and Services
 - 2.14.4 ROHM AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 ROHM Recent Developments/Updates
- 2.15 Yangjie Electronic Technology Co., Ltd.
 - 2.15.1 Yangjie Electronic Technology Co., Ltd. Details
 - 2.15.2 Yangjie Electronic Technology Co., Ltd. Major Business
 - 2.15.3 Yangjie Electronic Technology Co., Ltd. AI Server MOSFET Product and Services
 - 2.15.4 Yangjie Electronic Technology Co., Ltd. AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Yangjie Electronic Technology Co., Ltd. Recent Developments/Updates
- 2.16 Navitas
 - 2.16.1 Navitas Details
 - 2.16.2 Navitas Major Business
 - 2.16.3 Navitas AI Server MOSFET Product and Services
 - 2.16.4 Navitas AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Navitas Recent Developments/Updates
- 2.17 PANJIT International Inc
 - 2.17.1 PANJIT International Inc Details
 - 2.17.2 PANJIT International Inc Major Business
 - 2.17.3 PANJIT International Inc AI Server MOSFET Product and Services
 - 2.17.4 PANJIT International Inc AI Server MOSFET Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 PANJIT International Inc Recent Developments/Updates

2.18 Suzhou Oriental Semiconductor Company Limited

2.18.1 Suzhou Oriental Semiconductor Company Limited Details

2.18.2 Suzhou Oriental Semiconductor Company Limited Major Business

2.18.3 Suzhou Oriental Semiconductor Company Limited AI Server MOSFET Product and Services

2.18.4 Suzhou Oriental Semiconductor Company Limited AI Server MOSFET Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Suzhou Oriental Semiconductor Company Limited Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AI SERVER MOSFET BY MANUFACTURER

3.1 Global AI Server MOSFET Sales Quantity by Manufacturer (2021-2026)

3.2 Global AI Server MOSFET Revenue by Manufacturer (2021-2026)

3.3 Global AI Server MOSFET Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of AI Server MOSFET by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 AI Server MOSFET Manufacturer Market Share in 2025

3.4.3 Top 6 AI Server MOSFET Manufacturer Market Share in 2025

3.5 AI Server MOSFET Market: Overall Company Footprint Analysis

3.5.1 AI Server MOSFET Market: Region Footprint

3.5.2 AI Server MOSFET Market: Company Product Type Footprint

3.5.3 AI Server MOSFET 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 AI Server MOSFET Market Size by Region

4.1.1 Global AI Server MOSFET Sales Quantity by Region (2021-2032)

4.1.2 Global AI Server MOSFET Consumption Value by Region (2021-2032)

4.1.3 Global AI Server MOSFET Average Price by Region (2021-2032)

4.2 North America AI Server MOSFET Consumption Value (2021-2032)

4.3 Europe AI Server MOSFET Consumption Value (2021-2032)

4.4 Asia-Pacific AI Server MOSFET Consumption Value (2021-2032)

4.5 South America AI Server MOSFET Consumption Value (2021-2032)

4.6 Middle East & Africa AI Server MOSFET Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global AI Server MOSFET Sales Quantity by Type (2021-2032)

5.2 Global AI Server MOSFET Consumption Value by Type (2021-2032)

5.3 Global AI Server MOSFET Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global AI Server MOSFET Sales Quantity by Application (2021-2032)

6.2 Global AI Server MOSFET Consumption Value by Application (2021-2032)

6.3 Global AI Server MOSFET Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America AI Server MOSFET Sales Quantity by Type (2021-2032)

7.2 North America AI Server MOSFET Sales Quantity by Application (2021-2032)

7.3 North America AI Server MOSFET Market Size by Country

7.3.1 North America AI Server MOSFET Sales Quantity by Country (2021-2032)

7.3.2 North America AI Server MOSFET 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 AI Server MOSFET Sales Quantity by Type (2021-2032)

8.2 Europe AI Server MOSFET Sales Quantity by Application (2021-2032)

8.3 Europe AI Server MOSFET Market Size by Country

8.3.1 Europe AI Server MOSFET Sales Quantity by Country (2021-2032)

8.3.2 Europe AI Server MOSFET 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 AI Server MOSFET Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific AI Server MOSFET Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific AI Server MOSFET Market Size by Region
 - 9.3.1 Asia-Pacific AI Server MOSFET Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific AI Server MOSFET 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 AI Server MOSFET Sales Quantity by Type (2021-2032)
- 10.2 South America AI Server MOSFET Sales Quantity by Application (2021-2032)
- 10.3 South America AI Server MOSFET Market Size by Country
 - 10.3.1 South America AI Server MOSFET Sales Quantity by Country (2021-2032)
 - 10.3.2 South America AI Server MOSFET 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 AI Server MOSFET Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa AI Server MOSFET Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa AI Server MOSFET Market Size by Country
 - 11.3.1 Middle East & Africa AI Server MOSFET Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa AI Server MOSFET 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 AI Server MOSFET Market Drivers
- 12.2 AI Server MOSFET Market Restraints
- 12.3 AI Server MOSFET 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 AI Server MOSFET and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of AI Server MOSFET
- 13.3 AI Server MOSFET 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 AI Server MOSFET Typical Distributors
- 14.3 AI Server MOSFET 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 AI Server MOSFET Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global AI Server MOSFET Consumption Value by Structure, (USD Million), 2021 & 2025 & 2032

Table 3. Global AI Server MOSFET Consumption Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 4. Global AI Server MOSFET Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 6. Infineon Technologies Major Business

Table 7. Infineon Technologies AI Server MOSFET Product and Services

Table 8. Infineon Technologies AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Infineon Technologies Recent Developments/Updates

Table 10. onsemi Basic Information, Manufacturing Base and Competitors

Table 11. onsemi Major Business

Table 12. onsemi AI Server MOSFET Product and Services

Table 13. onsemi AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. onsemi Recent Developments/Updates

Table 15. Vishay Basic Information, Manufacturing Base and Competitors

Table 16. Vishay Major Business

Table 17. Vishay AI Server MOSFET Product and Services

Table 18. Vishay AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Vishay Recent Developments/Updates

Table 20. Alpha & Omega Semiconductor Basic Information, Manufacturing Base and Competitors

Table 21. Alpha & Omega Semiconductor Major Business

Table 22. Alpha & Omega Semiconductor AI Server MOSFET Product and Services

Table 23. Alpha & Omega Semiconductor AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Alpha & Omega Semiconductor Recent Developments/Updates

- Table 25. Nexperia Basic Information, Manufacturing Base and Competitors
- Table 26. Nexperia Major Business
- Table 27. Nexperia AI Server MOSFET Product and Services
- Table 28. Nexperia AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Nexperia Recent Developments/Updates
- Table 30. STMicroelectronics Basic Information, Manufacturing Base and Competitors
- Table 31. STMicroelectronics Major Business
- Table 32. STMicroelectronics AI Server MOSFET Product and Services
- Table 33. STMicroelectronics AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. STMicroelectronics Recent Developments/Updates
- Table 35. Wolfspeed Basic Information, Manufacturing Base and Competitors
- Table 36. Wolfspeed Major Business
- Table 37. Wolfspeed AI Server MOSFET Product and Services
- Table 38. Wolfspeed AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Wolfspeed Recent Developments/Updates
- Table 40. Monolithic Power Systems Basic Information, Manufacturing Base and Competitors
- Table 41. Monolithic Power Systems Major Business
- Table 42. Monolithic Power Systems AI Server MOSFET Product and Services
- Table 43. Monolithic Power Systems AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. Monolithic Power Systems Recent Developments/Updates
- Table 45. China Resources Microelectronics Limited Basic Information, Manufacturing Base and Competitors
- Table 46. China Resources Microelectronics Limited Major Business
- Table 47. China Resources Microelectronics Limited AI Server MOSFET Product and Services
- Table 48. China Resources Microelectronics Limited AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. China Resources Microelectronics Limited Recent Developments/Updates
- Table 50. Wuxi NCE Power Co., Ltd Basic Information, Manufacturing Base and Competitors
- Table 51. Wuxi NCE Power Co., Ltd Major Business

Table 52. Wuxi NCE Power Co., Ltd AI Server MOSFET Product and Services

Table 53. Wuxi NCE Power Co., Ltd AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Wuxi NCE Power Co., Ltd Recent Developments/Updates

Table 55. Advanced Power Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 56. Advanced Power Electronics Co., Ltd. Major Business

Table 57. Advanced Power Electronics Co., Ltd. AI Server MOSFET Product and Services

Table 58. Advanced Power Electronics Co., Ltd. AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Advanced Power Electronics Co., Ltd. Recent Developments/Updates

Table 60. TI Basic Information, Manufacturing Base and Competitors

Table 61. TI Major Business

Table 62. TI AI Server MOSFET Product and Services

Table 63. TI AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. TI Recent Developments/Updates

Table 65. JoulWatt Basic Information, Manufacturing Base and Competitors

Table 66. JoulWatt Major Business

Table 67. JoulWatt AI Server MOSFET Product and Services

Table 68. JoulWatt AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. JoulWatt Recent Developments/Updates

Table 70. ROHM Basic Information, Manufacturing Base and Competitors

Table 71. ROHM Major Business

Table 72. ROHM AI Server MOSFET Product and Services

Table 73. ROHM AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. ROHM Recent Developments/Updates

Table 75. Yangjie Electronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Yangjie Electronic Technology Co., Ltd. Major Business

Table 77. Yangjie Electronic Technology Co., Ltd. AI Server MOSFET Product and Services

Table 78. Yangjie Electronic Technology Co., Ltd. AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and

Market Share (2021-2026)

Table 79. Yangjie Electronic Technology Co., Ltd. Recent Developments/Updates

Table 80. Navitas Basic Information, Manufacturing Base and Competitors

Table 81. Navitas Major Business

Table 82. Navitas AI Server MOSFET Product and Services

Table 83. Navitas AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Navitas Recent Developments/Updates

Table 85. PANJIT International Inc Basic Information, Manufacturing Base and Competitors

Table 86. PANJIT International Inc Major Business

Table 87. PANJIT International Inc AI Server MOSFET Product and Services

Table 88. PANJIT International Inc AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. PANJIT International Inc Recent Developments/Updates

Table 90. Suzhou Oriental Semiconductor Company Limited Basic Information, Manufacturing Base and Competitors

Table 91. Suzhou Oriental Semiconductor Company Limited Major Business

Table 92. Suzhou Oriental Semiconductor Company Limited AI Server MOSFET Product and Services

Table 93. Suzhou Oriental Semiconductor Company Limited AI Server MOSFET Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 94. Suzhou Oriental Semiconductor Company Limited Recent Developments/Updates

Table 95. Global AI Server MOSFET Sales Quantity by Manufacturer (2021-2026) & (Million Units)

Table 96. Global AI Server MOSFET Revenue by Manufacturer (2021-2026) & (USD Million)

Table 97. Global AI Server MOSFET Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 98. Market Position of Manufacturers in AI Server MOSFET, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 99. Head Office and AI Server MOSFET Production Site of Key Manufacturer

Table 100. AI Server MOSFET Market: Company Product Type Footprint

Table 101. AI Server MOSFET Market: Company Product Application Footprint

Table 102. AI Server MOSFET New Market Entrants and Barriers to Market Entry

Table 103. AI Server MOSFET Mergers, Acquisition, Agreements, and Collaborations

Table 104. Global AI Server MOSFET Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 105. Global AI Server MOSFET Sales Quantity by Region (2021-2026) & (Million Units)

Table 106. Global AI Server MOSFET Sales Quantity by Region (2027-2032) & (Million Units)

Table 107. Global AI Server MOSFET Consumption Value by Region (2021-2026) & (USD Million)

Table 108. Global AI Server MOSFET Consumption Value by Region (2027-2032) & (USD Million)

Table 109. Global AI Server MOSFET Average Price by Region (2021-2026) & (US\$/Unit)

Table 110. Global AI Server MOSFET Average Price by Region (2027-2032) & (US\$/Unit)

Table 111. Global AI Server MOSFET Sales Quantity by Type (2021-2026) & (Million Units)

Table 112. Global AI Server MOSFET Sales Quantity by Type (2027-2032) & (Million Units)

Table 113. Global AI Server MOSFET Consumption Value by Type (2021-2026) & (USD Million)

Table 114. Global AI Server MOSFET Consumption Value by Type (2027-2032) & (USD Million)

Table 115. Global AI Server MOSFET Average Price by Type (2021-2026) & (US\$/Unit)

Table 116. Global AI Server MOSFET Average Price by Type (2027-2032) & (US\$/Unit)

Table 117. Global AI Server MOSFET Sales Quantity by Application (2021-2026) & (Million Units)

Table 118. Global AI Server MOSFET Sales Quantity by Application (2027-2032) & (Million Units)

Table 119. Global AI Server MOSFET Consumption Value by Application (2021-2026) & (USD Million)

Table 120. Global AI Server MOSFET Consumption Value by Application (2027-2032) & (USD Million)

Table 121. Global AI Server MOSFET Average Price by Application (2021-2026) & (US\$/Unit)

Table 122. Global AI Server MOSFET Average Price by Application (2027-2032) & (US\$/Unit)

Table 123. North America AI Server MOSFET Sales Quantity by Type (2021-2026) & (Million Units)

Table 124. North America AI Server MOSFET Sales Quantity by Type (2027-2032) &

(Million Units)

Table 125. North America AI Server MOSFET Sales Quantity by Application (2021-2026) & (Million Units)

Table 126. North America AI Server MOSFET Sales Quantity by Application (2027-2032) & (Million Units)

Table 127. North America AI Server MOSFET Sales Quantity by Country (2021-2026) & (Million Units)

Table 128. North America AI Server MOSFET Sales Quantity by Country (2027-2032) & (Million Units)

Table 129. North America AI Server MOSFET Consumption Value by Country (2021-2026) & (USD Million)

Table 130. North America AI Server MOSFET Consumption Value by Country (2027-2032) & (USD Million)

Table 131. Europe AI Server MOSFET Sales Quantity by Type (2021-2026) & (Million Units)

Table 132. Europe AI Server MOSFET Sales Quantity by Type (2027-2032) & (Million Units)

Table 133. Europe AI Server MOSFET Sales Quantity by Application (2021-2026) & (Million Units)

Table 134. Europe AI Server MOSFET Sales Quantity by Application (2027-2032) & (Million Units)

Table 135. Europe AI Server MOSFET Sales Quantity by Country (2021-2026) & (Million Units)

Table 136. Europe AI Server MOSFET Sales Quantity by Country (2027-2032) & (Million Units)

Table 137. Europe AI Server MOSFET Consumption Value by Country (2021-2026) & (USD Million)

Table 138. Europe AI Server MOSFET Consumption Value by Country (2027-2032) & (USD Million)

Table 139. Asia-Pacific AI Server MOSFET Sales Quantity by Type (2021-2026) & (Million Units)

Table 140. Asia-Pacific AI Server MOSFET Sales Quantity by Type (2027-2032) & (Million Units)

Table 141. Asia-Pacific AI Server MOSFET Sales Quantity by Application (2021-2026) & (Million Units)

Table 142. Asia-Pacific AI Server MOSFET Sales Quantity by Application (2027-2032) & (Million Units)

Table 143. Asia-Pacific AI Server MOSFET Sales Quantity by Region (2021-2026) & (Million Units)

Table 144. Asia-Pacific AI Server MOSFET Sales Quantity by Region (2027-2032) & (Million Units)

Table 145. Asia-Pacific AI Server MOSFET Consumption Value by Region (2021-2026) & (USD Million)

Table 146. Asia-Pacific AI Server MOSFET Consumption Value by Region (2027-2032) & (USD Million)

Table 147. South America AI Server MOSFET Sales Quantity by Type (2021-2026) & (Million Units)

Table 148. South America AI Server MOSFET Sales Quantity by Type (2027-2032) & (Million Units)

Table 149. South America AI Server MOSFET Sales Quantity by Application (2021-2026) & (Million Units)

Table 150. South America AI Server MOSFET Sales Quantity by Application (2027-2032) & (Million Units)

Table 151. South America AI Server MOSFET Sales Quantity by Country (2021-2026) & (Million Units)

Table 152. South America AI Server MOSFET Sales Quantity by Country (2027-2032) & (Million Units)

Table 153. South America AI Server MOSFET Consumption Value by Country (2021-2026) & (USD Million)

Table 154. South America AI Server MOSFET Consumption Value by Country (2027-2032) & (USD Million)

Table 155. Middle East & Africa AI Server MOSFET Sales Quantity by Type (2021-2026) & (Million Units)

Table 156. Middle East & Africa AI Server MOSFET Sales Quantity by Type (2027-2032) & (Million Units)

Table 157. Middle East & Africa AI Server MOSFET Sales Quantity by Application (2021-2026) & (Million Units)

Table 158. Middle East & Africa AI Server MOSFET Sales Quantity by Application (2027-2032) & (Million Units)

Table 159. Middle East & Africa AI Server MOSFET Sales Quantity by Country (2021-2026) & (Million Units)

Table 160. Middle East & Africa AI Server MOSFET Sales Quantity by Country (2027-2032) & (Million Units)

Table 161. Middle East & Africa AI Server MOSFET Consumption Value by Country (2021-2026) & (USD Million)

Table 162. Middle East & Africa AI Server MOSFET Consumption Value by Country (2027-2032) & (USD Million)

Table 163. AI Server MOSFET Raw Material

Table 164. Key Manufacturers of AI Server MOSFET Raw Materials

Table 165. AI Server MOSFET Typical Distributors

Table 166. AI Server MOSFET Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. AI Server MOSFET Picture

Figure 2. Global AI Server MOSFET Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global AI Server MOSFET Revenue Market Share by Type in 2025

Figure 4. Si MOSFET Examples

Figure 5. SiC MOSFET Examples

Figure 6. GaN MOSFET Examples

Figure 7. Global AI Server MOSFET Revenue by Structure, (USD Million), 2021 & 2025 & 2032

Figure 8. Global AI Server MOSFET Revenue Market Share by Structure in 2025

Figure 9. Discrete MOSFET Examples

Figure 10. DRMOS Examples

Figure 11. Global AI Server MOSFET Revenue by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 12. Global AI Server MOSFET Revenue Market Share by Voltage in 2025

Figure 13. High-voltage Section Examples

Figure 14. Low-voltage Section Examples

Figure 15. Global AI Server MOSFET Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 16. Global AI Server MOSFET Revenue Market Share by Application in 2025

Figure 17. PSU Examples

Figure 18. Hot-swap Examples

Figure 19. CPU/GPU VRM Examples

Figure 20. Others Examples

Figure 21. Global AI Server MOSFET Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global AI Server MOSFET Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global AI Server MOSFET Sales Quantity (2021-2032) & (Million Units)

Figure 24. Global AI Server MOSFET Price (2021-2032) & (US\$/Unit)

Figure 25. Global AI Server MOSFET Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global AI Server MOSFET Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of AI Server MOSFET by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 AI Server MOSFET Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 AI Server MOSFET Manufacturer (Revenue) Market Share in 2025

Figure 30. Global AI Server MOSFET Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global AI Server MOSFET Consumption Value Market Share by Region (2021-2032)

Figure 32. North America AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 35. South America AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 37. Global AI Server MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global AI Server MOSFET Consumption Value Market Share by Type (2021-2032)

Figure 39. Global AI Server MOSFET Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global AI Server MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global AI Server MOSFET Revenue Market Share by Application (2021-2032)

Figure 42. Global AI Server MOSFET Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America AI Server MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America AI Server MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America AI Server MOSFET Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America AI Server MOSFET Consumption Value Market Share by Country (2021-2032)

Figure 47. United States AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

- Figure 50. Europe AI Server MOSFET Sales Quantity Market Share by Type (2021-2032)
- Figure 51. Europe AI Server MOSFET Sales Quantity Market Share by Application (2021-2032)
- Figure 52. Europe AI Server MOSFET Sales Quantity Market Share by Country (2021-2032)
- Figure 53. Europe AI Server MOSFET Consumption Value Market Share by Country (2021-2032)
- Figure 54. Germany AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 55. France AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 56. United Kingdom AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 57. Russia AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 58. Italy AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 59. Asia-Pacific AI Server MOSFET Sales Quantity Market Share by Type (2021-2032)
- Figure 60. Asia-Pacific AI Server MOSFET Sales Quantity Market Share by Application (2021-2032)
- Figure 61. Asia-Pacific AI Server MOSFET Sales Quantity Market Share by Region (2021-2032)
- Figure 62. Asia-Pacific AI Server MOSFET Consumption Value Market Share by Region (2021-2032)
- Figure 63. China AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 64. Japan AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 65. South Korea AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 66. India AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 67. Southeast Asia AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 68. Australia AI Server MOSFET Consumption Value (2021-2032) & (USD Million)
- Figure 69. South America AI Server MOSFET Sales Quantity Market Share by Type (2021-2032)
- Figure 70. South America AI Server MOSFET Sales Quantity Market Share by Application (2021-2032)
- Figure 71. South America AI Server MOSFET Sales Quantity Market Share by Country (2021-2032)
- Figure 72. South America AI Server MOSFET Consumption Value Market Share by

Country (2021-2032)

Figure 73. Brazil AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa AI Server MOSFET Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa AI Server MOSFET Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa AI Server MOSFET Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa AI Server MOSFET Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa AI Server MOSFET Consumption Value (2021-2032) & (USD Million)

Figure 83. AI Server MOSFET Market Drivers

Figure 84. AI Server MOSFET Market Restraints

Figure 85. AI Server MOSFET Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of AI Server MOSFET in 2025

Figure 88. Manufacturing Process Analysis of AI Server MOSFET

Figure 89. AI Server MOSFET 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

I would like to order

Product name: Global AI Server MOSFET Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/G27913EAA853EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G27913EAA853EN.html>