

Global AI Server MOSFET Market Growth 2026-2032

<https://marketpublishers.com/r/G50978C14745EN.html>

Date: July 2026

Pages: 134

Price: US\$ 3,660.00 (Single User License)

ID: G50978C14745EN

Abstracts

The global AI Server MOSFET market size is predicted to grow from US\$ 986 million in 2025 to US\$ 4755 million in 2032; it is expected to grow at a CAGR of 23.4% from 2026 to 2032.

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.

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

This Insight Report provides a comprehensive analysis of the global AI Server MOSFET landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Server MOSFET portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an

accelerating global AI Server MOSFET market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Server MOSFET and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Server MOSFET.

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

Segmentation by Type:

Si MOSFET

SiC MOSFET

GaN MOSFET

Segmentation by Structure:

Discrete MOSFET

DRMOS

Segmentation by Voltage:

High-voltage Section

Low-voltage Section

Segmentation by Application:

PSU

Hot-swap

CPU/GPU VRM

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Server MOSFET market?

What factors are driving AI Server MOSFET market growth, globally and by region?

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

How do AI Server MOSFET market opportunities vary by end market size?

How does AI Server MOSFET break out by Type, by Application?

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