

Global AI Server Cabinet MLCCs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Server Cabinet MLCCs market size is expected to reach \$ 287 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

AI Server Cabinet MLCCs refer to multilayer ceramic capacitors used inside AI server cabinets, including power systems, GPU/CPU accelerator modules, motherboards, switches, power distribution units, and thermal control modules. These MLCCs are mainly used for decoupling, filtering, voltage stabilization, energy storage, and power-noise suppression. They typically require high capacitance, low ESR, high reliability, heat resistance, and long-term operational stability. As AI server power consumption continues to increase, higher cabinet-level power density and signal stability are driving greater usage and higher performance requirements for MLCCs. In 2025, global AI Server Cabinet MLCCs production reached approximately 68.1 million units, with an average global market price of around 2.5 USD/unit. The production capacity for AI Server Cabinet MLCCs in 2025 was approximately 100 million units. The typical gross profit margin for AI Server Cabinet MLCCs between 20% and 40%.

The AI Server Cabinet MLCCs market is growing rapidly, driven by the expansion of AI servers, GPU clusters, high-performance computing, and data centers. Compared with conventional servers, AI servers feature higher power consumption, more accelerator boards, and more complex power conversion architectures, creating stronger demand for high-capacitance, miniaturized, and high-reliability MLCCs. Future growth will be supported by AI training clusters, inference servers, liquid-cooled servers, power module upgrades, and high-speed networking equipment. The high-end MLCC supply chain remains concentrated among leading manufacturers such as Murata, Samsung Electro-Mechanics, and TDK, where product reliability, delivery capability, and high-capacitance portfolios will be key competitive factors.

This report studies the global AI Server Cabinet MLCCs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Server Cabinet MLCCs and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Server Cabinet MLCCs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Server Cabinet MLCCs total production and demand, 2021-2032, (Million Units)

Global AI Server Cabinet MLCCs total production value, 2021-2032, (USD Million)

Global AI Server Cabinet MLCCs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global AI Server Cabinet MLCCs consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: AI Server Cabinet MLCCs domestic production, consumption, key domestic manufacturers and share

Global AI Server Cabinet MLCCs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global AI Server Cabinet MLCCs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global AI Server Cabinet MLCCs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global AI Server Cabinet MLCCs market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SEMCO, Murata, Taiyo Yuden, Yageo Group, Vishay, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI Server Cabinet MLCCs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI Server Cabinet MLCCs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Server Cabinet MLCCs Market, Segmentation by Type:

Class I (C0G / NP0)

Class II (X7R / X5R)

Class III (Y5V / Z5U)

Global AI Server Cabinet MLCCs Market, Segmentation by Circuit Function:

Power Supply Filtering

High-Frequency / HF

Control / Auxiliary

Others

Global AI Server Cabinet MLCCs Market, Segmentation by Application:

AI Data Center

High-Performance Computing (HPC)

Cloud Computing and Enterprise Data Center

Others

Companies Profiled:

SEMCO

Murata

Taiyo Yuden

Yageo Group

Vishay

Key Questions Answered:

1. How big is the global AI Server Cabinet MLCCs market?
2. What is the demand of the global AI Server Cabinet MLCCs market?
3. What is the year over year growth of the global AI Server Cabinet MLCCs market?
4. What is the production and production value of the global AI Server Cabinet MLCCs market?
5. Who are the key producers in the global AI Server Cabinet MLCCs market?

6. What are the growth factors driving the market demand?

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