

Global MLC SSD Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MLC SSD market size is expected to reach \$ 6268 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

MLC SSD (Multi-Level Cell Solid State Drive) is a type of solid-state drive that uses NAND flash memory where each memory cell stores 2 bits of data. Compared to SLC (Single-Level Cell) which stores 1 bit per cell, MLC offers higher storage density and lower cost per gigabyte, but provides lower write endurance (typically 3,000-10,000 program/erase cycles) and slower write speeds. MLC SSDs occupy a middle ground between high-endurance SLC and high-density TLC/QLC, making them particularly suitable for enterprise storage, industrial control systems, automotive electronics, and high-reliability data applications.

The upstream segment includes suppliers of NAND flash memory chips (primarily MLC NAND), controller chips, DRAM cache, PCB substrates, passive components, and packaging/test services. The midstream segment encompasses SSD module design, manufacturing, firmware development, quality testing, and branding performed by specialized SSD manufacturers and brand vendors. MLC SSDs are categorized by application into enterprise-class MLC SSDs (for data centers, servers) and industrial-class MLC SSDs (for extreme environments); by form factor into 2.5-inch, M.2, mSATA, and U.2; by interface into SATA, SAS, and PCIe; by capacity into 128GB, 256GB, 512GB, 1TB, and above. The downstream segment serves enterprise data centers, cloud service providers, server OEMs, industrial automation companies, automotive electronics suppliers, medical device manufacturers, and defense/aerospace contractors through direct sales, distributors, and OEM channels.

The global average selling price for MLC SSDs is approximately US\$95 per unit (based

on 128-256GB mainstream capacity), with annual sales volume reaching approximately 42 million units in 2025. The industry maintains gross margins between 24% and 32% , with vertically integrated manufacturers (owning controller and NAND capabilities) achieving margins up to 32%.

The global MLC SSD market is undergoing a significant transformation, characterized by supply shortages, sharp price increases, and a structural shift away from legacy MLC production. Major NAND manufacturers have announced end-of-life plans for MLC products, redirecting production capacity toward higher-margin AI server and enterprise SSD markets.

A defining trend reshaping the market is the rapid contraction of MLC NAND supply combined with surging prices. Industry data shows significant year-over-year price increases for MLC NAND, with global MLC NAND flash capacity projected to decline substantially, further exacerbating the supply-demand imbalance. This price surge is most acute in automotive and industrial segments, where qualification cycles are lengthy and sudden EOL announcements have caught many buyers unprepared.

Another critical development is the widening application gap between consumer and industrial/automotive MLC. Demand remains strong in industrial control, automotive electronics, medical devices, networking equipment, and aerospace applications. These sectors require product reliability, extended write endurance, and long-term supply commitments?requirements that newer TLC and QLC technologies cannot yet match. The automotive industry has been particularly hard hit, as vehicle qualification cycles span multiple years, and many automakers underestimated the severity of MLC shortages until recently.

Chinese SSD manufacturers are emerging as key beneficiaries of this structural shift. As international players exit the MLC market, domestic Chinese suppliers are expanding their industrial and automotive-grade MLC SSD offerings, stepping in to fill the supply gap. This is creating opportunities for localized supply chain development.

This report studies the global MLC SSD production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MLC SSD 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 MLC SSD that contribute to its increasing demand across

many markets.

Highlights and key features of the study

Global MLC SSD total production and demand, 2021-2032, (K Units)

Global MLC SSD total production value, 2021-2032, (USD Million)

Global MLC SSD production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global MLC SSD consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: MLC SSD domestic production, consumption, key domestic manufacturers and share

Global MLC SSD production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global MLC SSD production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global MLC SSD production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global MLC SSD 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 Samsung Electronics Co., Ltd., SK Hynix Inc., Kioxia Corporation, Micron Technology, Inc. (Crucial), Western Digital Corporation, Intel Corporation, Seagate Technology Holdings plc, Kingston Technology Corporation, Sony Group Corporation, ADATA Technology Co., Ltd., 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 MLC SSD market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 MLC SSD Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MLC SSD Market, Segmentation by Type:

128GB - 256GB

512GB - 1TB

Above 1TB

Global MLC SSD Market, Segmentation by Interface:

SATA

SAS

PCIe / NVMe

Global MLC SSD Market, Segmentation by Cell Structure:

Planar (2D) MLC

3D MLC (Vertical)

Global MLC SSD Market, Segmentation by Application:

Embedded Systems

Industrial Control

Internet of Things

Other

Companies Profiled:

Samsung Electronics Co., Ltd.

SK Hynix Inc.

Kioxia Corporation

Micron Technology, Inc. (Crucial)

Western Digital Corporation

Intel Corporation

Seagate Technology Holdings plc

Kingston Technology Corporation

Sony Group Corporation

ADATA Technology Co., Ltd.

Transcend Information, Inc.

GIGA-BYTE Technology Co., Ltd.

Lenovo Group Limited

Yangtze Memory Technologies Co., Ltd.

Shenzhen KingSpec Electronics Technology Co., Ltd.

Teclast Electronics Co., Ltd.

BIWIN Storage Technology Co., Ltd.

Netac Technology Co., Ltd.

Longsys Electronics Co., Ltd.

Glochip (Shenzhen HongXinYu Electronics Co., Ltd.)

Union Memory (Shenzhen) Co., Ltd.

Colorful Technology Co., Ltd.

Shenzhen Powev Information Technology Co., Ltd.

Idcems (LingDe Storage)

KingBank Technology Co., Ltd.

Key Questions Answered:

1. How big is the global MLC SSD market?
2. What is the demand of the global MLC SSD market?
3. What is the year over year growth of the global MLC SSD market?
4. What is the production and production value of the global MLC SSD market?
5. Who are the key producers in the global MLC SSD market?
6. What are the growth factors driving the market demand?

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