

Global MLC SSD 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 MLC SSD market size was valued at US\$ 4106 million in 2025 and is forecast to a readjusted size of US\$ 6268 million by 2032 with a CAGR of 6.0% during review period.

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

Global MLC SSD 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 MLC SSD 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 MLC SSD 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:

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

To assess the growth potential for MLC SSD

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 MLC SSD 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 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.

Market Segmentation

MLC SSD 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

128GB - 256GB

512GB - 1TB

Above 1TB

Market segment by Interface

SATA

SAS

PCIe / NVMe

Market segment by Cell Structure

Planar (2D) MLC

3D MLC (Vertical)

Market segment by Application

Embedded Systems

Industrial Control

Internet of Things

Other

Major players covered

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.

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 MLC SSD product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MLC SSD, with price, sales

quantity, revenue, and global market share of MLC SSD from 2021 to 2026.

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

Chapter 4, the MLC SSD 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 MLC SSD 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 MLC SSD.

Chapter 14 and 15, to describe MLC SSD sales channel, distributors, customers, research findings and conclusion.

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