

Global QLC Solid State Drive (SSD) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global QLC Solid State Drive (SSD) market size is expected to reach \$ 1851 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

Quad-cell solid-state drives (QLC) are storage devices that utilize four-level cell flash memory technology. Each cell can store four bits of data. Compared to MLC and TLC, they offer a significant advantage in cost per unit capacity, but their write endurance and performance are relatively lower. Therefore, they are primarily used in capacity-sensitive, read-heavy, and write-light scenarios such as data archiving, cold data storage, and consumer-grade high-capacity storage. Based on storage market shipment structure estimates, global QLC SSD sales in 2025 were approximately 1.85 million units, with an average price of approximately \$620 per unit and a capacity utilization rate of approximately 79%. The upstream of the industry chain mainly includes NAND flash memory chip manufacturers, controller chip design companies, packaging and testing companies, and storage material suppliers. The midstream consists of solid-state drive module manufacturers and brand manufacturers, while the downstream covers cloud service providers, internet data centers, personal computer manufacturers, surveillance storage companies, and consumer electronics brands. The overall gross profit margin is approximately 18%, with manufacturers possessing large-scale manufacturing and self-developed NAND capabilities reaching 25%. The product cost structure is mainly composed of QLC... NAND flash memory accounts for approximately 62%, controller chips approximately 10%, DRAM and cache approximately 6%, packaging and testing approximately 9%, PCB and structural components approximately 6%, and other costs approximately 7%. On the demand side, the downstream demand list includes large-scale data storage needs, cold data archiving needs, video surveillance storage needs, large-capacity storage needs for personal

computers, and cloud storage expansion needs. The downstream customer list includes cloud service providers, internet companies, data center operators, PC manufacturers, security companies, and consumer electronics brands. On the business opportunity side, policy drivers come from the development of the digital economy, the circulation of data elements, and the continuous advancement of data center construction. Technological innovation drivers are reflected in the continuous progress of high-level NAND processes, controller optimization algorithms, and caching technologies. Changing consumer demands are reflected in the increasing demand for low-cost, large-capacity storage, while also placing higher requirements on the balance between energy efficiency and reliability.

QLC SSDs, as a key technology driving down storage costs, are rapidly penetrating the consumer and some enterprise markets. Their core competitiveness lies in their significantly lower unit capacity cost compared to MLC and TLC, giving them broad application prospects in the context of explosive growth in high-capacity demand. From an industry trend perspective, with the continuous growth of data volume, especially the rapid expansion of video data, cloud storage, and AI training data, the demand for low-cost, high-capacity storage is constantly increasing, driving rapid growth in QLC SSD shipments. Meanwhile, optimized controller algorithms and improved caching mechanisms have, to some extent, compensated for their performance and lifespan shortcomings, allowing them to gradually enter more application scenarios. From a competitive perspective, manufacturers with NAND manufacturing capabilities have a clear advantage in cost and technology, while module manufacturers compete through differentiated designs and channel capabilities. The key to future industry development lies in performance optimization and application scenario expansion. On the one hand, firmware optimization and caching design will improve the actual user experience; on the other hand, the application of QLC in enterprise-level cold data and edge storage will be promoted. In the long term, QLC SSDs are expected to become the mainstream solution for capacity storage, but their development is still constrained by write lifespan and performance limitations. The industry as a whole is showing a development trend of cost-driven and technology optimization in parallel.

This report studies the global QLC Solid State Drive (SSD) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for QLC Solid State Drive (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 QLC Solid State Drive (SSD) that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global QLC Solid State Drive (SSD) total production and demand, 2021-2032, (K Units)

Global QLC Solid State Drive (SSD) total production value, 2021-2032, (USD Million)

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

Global QLC Solid State Drive (SSD) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: QLC Solid State Drive (SSD) domestic production, consumption, key domestic manufacturers and share

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

Global QLC Solid State Drive (SSD) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global QLC Solid State Drive (SSD) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global QLC Solid State Drive (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 Micron, Western Digital, Intel, Kingston, Samsung, Seagate, Kioxia, Solidigm, Visiontek, Unirex Technologies, 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 QLC Solid State Drive (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 QLC Solid State Drive (SSD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global QLC Solid State Drive (SSD) Market, Segmentation by Type:

Less Than 1500 MB/S

1500-1900 MB/S

Greater Than 1900 MB/S

Global QLC Solid State Drive (SSD) Market, Segmentation by Sequential Read Speed:

?4000MB/s

4000-7000MB/s

?7000MB/s

Global QLC Solid State Drive (SSD) Market, Segmentation by Sequential Write Speed:

?3000MB/s

3000-6000MB/s

?6000MB/s

Global QLC Solid State Drive (SSD) Market, Segmentation by Application:

Commercial Use

Consumer Use

Companies Profiled:

Micron

Western Digital

Intel

Kingston

Samsung

Seagate

Kioxia

Solidigm

Visiontek

Unirex Technologies

Sabrent

Transcend

YMTC

Phison

Team Group Inc

Lenovo

HIKSEMI

Key Questions Answered:

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

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