

Global Ball Grid Array SSD Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ball Grid Array SSD market size is expected to reach \$ 1636 million by 2032, rising at a market growth of 11.2% CAGR during the forecast period (2026-2032).

Ball Grid Array SSD refers to a miniaturized board-mounted solid-state storage device that uses a BGA solder-ball package and integrates NAND Flash, an SSD controller, firmware, ECC, bad-block management, wear leveling, data encryption and essential power-management functions into a single package that can be directly soldered onto the system board. Major product forms include PCIe NVMe BGA SSDs, SATA BGA SSDs and industrial NANDDrive-type embedded SSDs. Key upstream inputs include 3D NAND wafers, SSD controllers, packaging substrates, solder balls, bonding materials, passive components, PMICs, firmware algorithms, assembly and testing services, and reliability qualification services. Major downstream customers include PC OEMs, industrial computer manufacturers, automotive Tier 1 suppliers, cockpit and domain controller makers, telecom equipment vendors, medical device companies, robotics and drone manufacturers, and embedded system integrators. The global effective capacity in 2025 is estimated at about 52 million units, shipments at about 38.47 million units, average selling price at about USD18.90 per unit, and mainstream gross margin at around 20%-36%.

From the current market perspective, Ball Grid Array SSD remains a miniaturized embedded segment within the broader solid-state storage market, mainly serving devices with limited space, higher vibration resistance requirements and stronger system-integration needs. Compared with removable SSD form factors such as M.2 and U.2, BGA SSD improves structural compactness and connection reliability through solder-down board-level integration, making it suitable for ultra-thin PCs, industrial control systems, automotive electronics, medical devices, edge computing equipment

and rugged terminals. Current demand is not driven by a single application boom, but by thinner end devices, miniaturized embedded systems and the replacement of removable storage with high-reliability onboard storage.

From the supply-side perspective, the BGA SSD market is served by large storage vendors, SSD controller and embedded storage solution providers, industrial storage specialists and regional module makers. Leading suppliers have advantages in NAND sourcing, controller design, firmware algorithms, assembly and testing, and customer qualification, enabling them to serve PC OEM, automotive and industrial customers. Smaller and specialized suppliers often compete through wide-temperature support, long lifecycle supply, locked BOM, customized firmware, power-loss protection and fast response to low-volume projects in industrial, medical, networking and rugged equipment markets. Competition is therefore not limited to capacity and read/write speed, but also includes long-term supply stability, firmware reliability, data security and platform design-in capability.

Looking ahead, BGA SSDs will continue to move toward PCIe NVMe, higher capacity, lower power consumption, stronger reliability and enhanced security. As AI PCs, handheld gaming devices, AR/VR products, robotics, edge AI equipment and intelligent vehicle electronics continue to upgrade, the addressable market for compact high-performance storage will keep expanding. Consumer and PC applications place greater emphasis on thinness, power efficiency and cost balance, while industrial and automotive applications focus more on wide-temperature operation, vibration resistance, health monitoring, data integrity, encryption, secure erase and power-loss protection. At the same time, UFS, eMMC and M.2 SSDs will remain substitutes or competing options in some scenarios, so BGA SSDs need to maintain differentiation through performance, size, reliability and system-integration advantages.

Growth momentum mainly comes from shrinking board space in end devices, upgrades of embedded computing platforms, wider deployment of industrial edge devices, rising demand for high-reliability automotive storage, and increasing customer acceptance of integrated solder-down storage solutions. Key constraints include the lack of field replaceability, higher repair cost, long customer validation cycles, weaker capacity upgrade flexibility than removable SSDs, and the impact of NAND price cycles on product cost and margins. Overall, Ball Grid Array SSDs will not replace mainstream M.2 SSDs or enterprise SSDs, but they should maintain steady growth in applications that require compact size, vibration resistance, long-term supply and high reliability.

This report studies the global Ball Grid Array SSD production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ball Grid Array 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 Ball Grid Array SSD that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ball Grid Array SSD total production and demand, 2021-2032, (Million Units)

Global Ball Grid Array SSD total production value, 2021-2032, (USD Million)

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

Global Ball Grid Array SSD consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Ball Grid Array SSD domestic production, consumption, key domestic manufacturers and share

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

Global Ball Grid Array SSD production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Ball Grid Array SSD production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Ball Grid Array 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, SanDisk, Kioxia, Micron Technology, Silicon Motion Technology, Greenliant, Innodisk, ATP Electronics, Apacer, SMART Modular 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 Ball Grid Array SSD 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 Ball Grid Array SSD Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ball Grid Array SSD Market, Segmentation by Type:

PCIe NVMe

SATA

PATA / Legacy Interface

Other

Global Ball Grid Array SSD Market, Segmentation by Grade:

Commercial Grade

Industrial Grade

Automotive Grade

Other

Global Ball Grid Array SSD Market, Segmentation by Capacity Range:

Below 64 GB

64 GB?256 GB

512 GB?1 TB

Above 1 TB

Global Ball Grid Array SSD Market, Segmentation by Application:

Client PCs and AI Devices

Automotive Electronics

Industrial and Embedded Systems

Medical and Rugged Devices

Communications and Networking

Other

Companies Profiled:

Samsung Electronics

SanDisk

Kioxia

Micron Technology

Silicon Motion Technology

Greenliant

Innodisk

ATP Electronics

Apacer

SMART Modular Technologies

Delkin Devices

BIWIN Storage Technology

Longsys Electronics

Phison Electronics

Key Questions Answered:

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

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