

Global Ball Grid Array 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 Ball Grid Array SSD market size was valued at US\$ 748 million in 2025 and is forecast to a readjusted size of US\$ 1636 million by 2032 with a CAGR of 11.2% during review period.

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

Global Ball Grid Array SSD market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Ball Grid Array SSD market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Ball Grid Array SSD market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 Ball Grid Array 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 Ball Grid Array 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, 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.

Market Segmentation

Ball Grid Array 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

PCIe NVMe

SATA

PATA / Legacy Interface

Other

Market segment by Grade

Commercial Grade

Industrial Grade

Automotive Grade

Other

Market segment by Capacity Range

Below 64 GB

64 GB?256 GB

512 GB?1 TB

Above 1 TB

Market segment by Application

Client PCs and AI Devices

Automotive Electronics

Industrial and Embedded Systems

Medical and Rugged Devices

Communications and Networking

Other

Major players covered

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

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 Ball Grid Array SSD product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ball Grid Array SSD, with price, sales quantity, revenue, and global market share of Ball Grid Array SSD from 2021 to 2026.

Chapter 3, the Ball Grid Array SSD competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Ball Grid Array 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 Ball Grid Array 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 Ball Grid Array SSD.

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

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