

Global FBGA Package eMMC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global FBGA Package eMMC market size is expected to reach \$ 14453 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

FBGA Package eMMC refers to an embedded non-volatile storage device that integrates NAND Flash, an eMMC controller, firmware and an MMC-standard interface into a single fine-pitch BGA package, which can be directly soldered onto the system board. It is mainly used in end devices requiring compact size, low power consumption, cost efficiency and simplified system integration. Key upstream inputs include 3D NAND wafers, eMMC controllers, packaging substrates, solder balls, bonding materials, passive components, firmware algorithms, ECC algorithms, wafer fabrication, assembly/testing services and reliability qualification services. Major downstream customers include smartphone and tablet makers, consumer electronics brands, IoT device manufacturers, industrial control equipment suppliers, automotive Tier 1 suppliers, medical device makers, communications and networking equipment vendors, smart home companies and security device manufacturers. The global effective capacity in 2025 is estimated at about 2.68 billion units, shipments at about 1.836 billion units, average selling price at about USD5.96 per unit, and mainstream gross margin at around 18%-34%.

From the current market perspective, FBGA Package eMMC remains an important product form in the low- to mid-cost embedded storage market, serving smartphones, tablets, smart TVs, set-top boxes, IoT terminals, industrial control systems, automotive electronics and security devices. Compared with raw NAND, eMMC integrates a controller and firmware, reducing the host processor's burden in flash management, bad-block handling and ECC correction. Compared with UFS and BGA SSDs, eMMC still has advantages in cost, ecosystem maturity, power consumption and design

simplicity. Therefore, it remains well suited for devices that do not require extreme performance but are sensitive to size, power and cost.

From the supply-side perspective, the FBGA eMMC market is served by NAND manufacturers, embedded storage solution providers, industrial storage vendors and Chinese storage module suppliers. Samsung, Micron, Kioxia and SanDisk have advantages in NAND sourcing, controller integration and large customer supply, covering consumer electronics, automotive and industrial embedded customers. Silicon Motion, Greenliant, ATP, Swissbit, Apacer and SMART Modular compete more through firmware capability, wide-temperature support, long lifecycle supply and small-batch customization for industrial, medical, communications and high-reliability markets. Longsys and BIWIN are expanding their presence by leveraging local supply chains, customer responsiveness and packaging/testing collaboration.

In terms of future trends, FBGA eMMC will not move into the high-performance segment as rapidly as UFS or PCIe SSDs. Instead, it will continue to evolve around low power consumption, low cost, compact size, long lifecycle and reliability enhancement. In smartphones and tablets, eMMC is gradually being replaced by UFS in mid- to high-end models, but it still has stable demand in entry-level consumer electronics, smart home devices, security equipment, industrial control, automotive infotainment, T-Boxes and edge terminals. Industrial and automotive products will focus more on wide-temperature operation, pSLC mode, health monitoring, enhanced endurance, data protection, secure partitions, fixed BOM and long-term supply, while consumer products will focus more on cost and delivery stability.

Growth momentum mainly comes from the expansion of IoT devices, broader adoption of smart home products, increasing deployment of industrial edge systems, higher penetration of automotive electronics, growth of low-power embedded systems and continued demand for low-cost consumer electronics in developing markets. Key constraints include UFS substitution in mid- to high-end mobile devices, BGA SSD substitution in higher-performance embedded systems, intense price competition in consumer electronics, NAND price cyclicity and lifecycle pressure on some low-density eMMC products. Overall, FBGA Package eMMC is not a high-growth segment, but its mature standard, controlled cost, simple design and broad supply base should support stable demand in low- to mid-density embedded storage applications.

This report studies the global FBGA Package eMMC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for FBGA Package eMMC 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 FBGA Package eMMC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global FBGA Package eMMC total production and demand, 2021-2032, (Million Units)

Global FBGA Package eMMC total production value, 2021-2032, (USD Million)

Global FBGA Package eMMC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global FBGA Package eMMC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: FBGA Package eMMC domestic production, consumption, key domestic manufacturers and share

Global FBGA Package eMMC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global FBGA Package eMMC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global FBGA Package eMMC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global FBGA Package eMMC 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, Micron Technology, Kioxia, SanDisk, SK hynix, Kingston Technology, Integrated Silicon Solution, Silicon Motion Technology, Greenliant, ATP Electronics, 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 FBGA Package eMMC 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 FBGA Package eMMC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global FBGA Package eMMC Market, Segmentation by Type:

Below 8 GB

8 GB?32 GB

64 GB?128 GB

Above 128 GB

Global FBGA Package eMMC Market, Segmentation by Grade:

Commercial Grade

Industrial Grade

Automotive Grade

Other

Global FBGA Package eMMC Market, Segmentation by NAND Type:

MLC NAND

TLC NAND

pSLC NAND

Other

Global FBGA Package eMMC Market, Segmentation by Application:

Smartphones and Tablets

Consumer Electronics

Automotive Electronics

Industrial and Embedded Systems

Communications and IoT Devices

Other

Companies Profiled:

Samsung Electronics

Micron Technology

Kioxia

SanDisk

SK hynix

Kingston Technology

Integrated Silicon Solution

Silicon Motion Technology

Greenliant

ATP Electronics

Swissbit

Apacer

SMART Modular Technologies

Longsys Electronics

BIWIN Storage Technology

Flexxon

Key Questions Answered:

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

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