

Global Mobile DRAM Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mobile DRAM market size is expected to reach \$ 157269 million by 2032, rising at a market growth of 11.4% CAGR during the forecast period (2026-2032).

Mobile dynamic random-access memory (DRAM) is a type of memory specifically designed for use in mobile devices such as smartphones and tablets. It provides fast and efficient storage for data that the device's processor needs to access quickly. Mobile DRAM allows for smoother multitasking, faster app loading times, and efficient power consumption in mobile devices.

In 2025, global Mobile DRAM production reached 112,573 million GB, with an average selling price of approximately USD 0.4 per GB. Production growth was supported by rising smartphone memory capacities, increasing penetration of 5G devices, and growing demand for premium handsets equipped with AI capabilities. Although global smartphone unit growth remained relatively moderate, the average DRAM content per device continued to increase, resulting in sustained bit shipment growth across the Mobile DRAM market.

Profitability improved significantly during 2024?2025 as memory suppliers benefited from industry inventory normalization and stronger demand for advanced LPDDR products. Leading manufacturers such as Samsung Electronics, SK hynix, and Micron Technology focused on higher-value LPDDR5 and LPDDR5X solutions, which helped enhance product mix and pricing. Industry gross margins generally recovered to the 30%?45% range in 2025, while advanced low-power memory products for flagship smartphones and AI-enabled devices achieved higher profitability than mainstream memory products.

Looking ahead, the Mobile DRAM market is expected to benefit from the rapid development of on-device AI, edge computing, and increasingly sophisticated mobile applications. Key trends include the transition from LPDDR4X to LPDDR5/LPDDR5X, rising adoption of 12GB?24GB memory configurations in premium smartphones, and growing demand for memory-intensive functions such as generative AI, computational photography, and immersive gaming. In addition, continuous process-node migration and advanced packaging technologies are expected to improve performance and energy efficiency, supporting long-term growth in both Mobile DRAM shipments and market value.

This report studies the global Mobile DRAM production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Mobile DRAM total production and demand, 2021-2032, (Million GB)

Global Mobile DRAM total production value, 2021-2032, (USD Million)

Global Mobile DRAM production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million GB), (based on production site)

Global Mobile DRAM consumption by region & country, CAGR, 2021-2032 & (Million GB)

U.S. VS China: Mobile DRAM domestic production, consumption, key domestic manufacturers and share

Global Mobile DRAM production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million GB)

Global Mobile DRAM production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million GB)

Global Mobile DRAM production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million GB)

This report profiles key players in the global Mobile DRAM 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, SK Hynix, Micron

Technology, ChangXin Memory Technologies (CXMT), Nanya Technology, Winbond 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 Mobile DRAM market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million GB) and average price (US\$/GB) 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 Mobile DRAM Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile DRAM Market, Segmentation by Type:

DDR3

DDR4

Others

Global Mobile DRAM Market, Segmentation by Packaging & Integration:

2D Planar DRAM

3D Stacked DRAM

Others

Global Mobile DRAM Market, Segmentation by Product Architecture:

Standard DRAM

LPDDR (Low Power DRAM)

GDDR (Graphics DRAM)

Others

Global Mobile DRAM Market, Segmentation by Application:

Phones

Tablets

Wearable Devices

Others

Companies Profiled:

Samsung Electronics

SK Hynix

Micron Technology

ChangXin Memory Technologies (CXMT)

Nanya Technology

Winbond Electronics

Key Questions Answered:

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

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Figure 71. Mobile DRAM Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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