

Global DDR4 Memory Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global DDR4 Memory Chip market size is expected to reach \$ 24500 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

DDR4 memory chips are mainstream general-purpose DRAM products between DDR3 and DDR5. Compared with DDR3, DDR4 provides higher data-transfer rates, lower operating voltage and higher device density, with a typical operating voltage of 1.2V and mainstream speeds from 2133Mbps to 3200Mbps. Although new PC and server platforms have increasingly shifted to DDR5, DDR4 still has a large installed base and a long product lifecycle in industrial control, networking, surveillance, automotive electronics, medical devices, consumer electronics and cost-sensitive PCs. In 2025, global DDR4 memory chip shipments are estimated at 12,000 million Units, with an average selling price of around 1.5 US\$/Unit. The DDR4 memory chip value chain includes upstream silicon wafers, photoresists, electronic gases, sputtering targets, wet chemicals, photomasks, lithography/etching/deposition/metrology equipment, etc.

In 2025, Samsung, SK hynix and Micron were reported to be phasing out DDR4 production as they shifted capacity toward DDR5, LPDDR5 and HBM. However, strong DDR4 pricing and continued demand from industrial, server and legacy platforms led to reports that Samsung and SK hynix extended selected DDR4 production into 2026. Therefore, DDR4 should not be described as having been completely discontinued by all major suppliers in 2025; a more accurate description is that DDR4 entered a phase of capacity reduction by leading DRAM makers, extended supply for selected long-lifecycle customers, and demand migration toward niche and specialty DRAM suppliers.

The DDR4 memory chip market is mainly supported by the large installed base of DDR4 platforms, long lifecycle demand in industrial and embedded applications, and capacity

tightening on the supply side. Although new PC and server platforms are shifting to DDR5, a large number of DDR4 motherboards, legacy servers, industrial PCs, networking devices, surveillance systems and embedded terminals remain in production, maintenance or replacement cycles. These customers prioritize platform stability, qualification history and long-term availability over maximum bandwidth. At the same time, AI server demand has pushed DRAM makers to prioritize HBM and DDR5 capacity, reducing the capacity available for DDR4 and supporting price recovery in selected segments.

This report studies the global DDR4 Memory Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DDR4 Memory Chip 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 DDR4 Memory Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global DDR4 Memory Chip total production and demand, 2021-2032, (Million Units)

Global DDR4 Memory Chip total production value, 2021-2032, (USD Million)

Global DDR4 Memory Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global DDR4 Memory Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: DDR4 Memory Chip domestic production, consumption, key domestic manufacturers and share

Global DDR4 Memory Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global DDR4 Memory Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global DDR4 Memory Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global DDR4 Memory Chip 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, Nanya Technology Corporation,

Winbond, GigaDevice Semiconductor, Integrated Silicon Solution, Etron Technology, Elite Semiconductor Microelectronics Technology, 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 DDR4 Memory Chip 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 DDR4 Memory Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DDR4 Memory Chip Market, Segmentation by Type:

4Gb DDR4

8Gb DDR4

16Gb DDR4

32Gb DDR4

Global DDR4 Memory Chip Market, Segmentation by Grade:

Commercial Grade

Industrial Grade

Automotive Grade

Global DDR4 Memory Chip Market, Segmentation by Organization:

x4 DDR4

x8 DDR4

x16 DDR4

Global DDR4 Memory Chip Market, Segmentation by Application:

Consumer Electronics

Server and Data Center

Industrial Control

Automotive Electronics

Others

Companies Profiled:

Samsung Electronics

SK hynix

Micron Technology

ChangXin Memory Technologies

Nanya Technology Corporation

Winbond

GigaDevice Semiconductor

Integrated Silicon Solution

Etron Technology

Elite Semiconductor Microelectronics Technology

Alliance Memory

Key Questions Answered:

1. How big is the global DDR4 Memory Chip market?
2. What is the demand of the global DDR4 Memory Chip market?
3. What is the year over year growth of the global DDR4 Memory Chip market?
4. What is the production and production value of the global DDR4 Memory Chip market?
5. Who are the key producers in the global DDR4 Memory Chip market?
6. What are the growth factors driving the market demand?

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