

Global LPDDR5X DRAM 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 LPDDR5X DRAM market size was valued at US\$ 29634 million in 2025 and is forecast to a readjusted size of US\$ 44432 million by 2032 with a CAGR of 6.5% during review period.

LPDDR5X DRAM is an enhanced version of LPDDR5 designed to deliver higher data rates, lower operating power and improved bandwidth efficiency for mobile and edge-computing devices. Compared with conventional DDR memory used in PCs and servers, LPDDR5X emphasizes low power, compact packaging and high bandwidth density, and is typically placed close to mobile SoCs, notebook processors or automotive SoCs. It is increasingly used in flagship smartphones, AI-enabled laptops, automotive cockpit platforms and edge-AI devices. In 2025, the global LPDDR5X DRAM (standalone die) sales is estimated at about 3,600 million units, with an average selling price of approximately USD 8 per unit.

The LPDDR5X DRAM market is mainly driven by the simultaneous demand for higher on-device AI performance, longer battery life and thinner memory packaging. Flagship smartphones and AI phones require more memory capacity and bandwidth for on-device large models, image generation, real-time translation, AI photography and multitasking, pushing configurations from 8GB and 12GB toward 16GB and 24GB. AI PCs, ultrathin notebooks and handheld gaming devices are also adopting higher-bandwidth low-power memory to balance graphics performance, NPU workloads and battery life, while automotive cockpits, ADAS domain controllers and edge-AI devices are increasing demand for automotive-grade, wide-temperature and high-reliability LPDDR5X. As a result, LPDDR5X is evolving from a mobile-phone memory product into a broader low-power, high-performance memory platform.

This report is a detailed and comprehensive analysis for global LPDDR5X DRAM 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 LPDDR5X DRAM market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global LPDDR5X DRAM 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 LPDDR5X DRAM 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 LPDDR5X DRAM 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 LPDDR5X DRAM

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 LPDDR5X DRAM 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, SK hynix, Micron Technology, ChangXin Memory Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

LPDDR5X DRAM 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

8GB and Below

12GB

16GB

24GB and Above

Market segment by Product Form

Standalone Die

Packaged Products

Market segment by Grade

Commercial Grade

Industrial Grade

Automotive Grade

Market segment by Application

Consumer Electronic

Automotive Electronic

Edge AI And Embedded Devices

Others

Major players covered

Samsung Electronics

SK hynix

Micron Technology

ChangXin Memory Technologies

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 LPDDR5X DRAM product scope, market overview,

market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of LPDDR5X DRAM, with price, sales quantity, revenue, and global market share of LPDDR5X DRAM from 2021 to 2026.

Chapter 3, the LPDDR5X DRAM competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the LPDDR5X DRAM 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 LPDDR5X DRAM 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 LPDDR5X DRAM.

Chapter 14 and 15, to describe LPDDR5X DRAM sales channel, distributors, customers, research findings and conclusion.

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