

Global DDR5 Registering Clock Driver (RCD) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global DDR5 Registering Clock Driver (RCD) market size is expected to reach \$ 1155 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

DDR5 RCD is a key companion IC for the transition of server memory modules from DDR4 to higher-bandwidth and higher-capacity DDR5 architectures. Typically placed at the center of an RDIMM, it buffers and distributes command/address, chip-select and clock signals so that the host memory controller can reliably drive a larger number of DRAM devices at higher data rates. In 2025, the global DDR5 RCD market, defined as packaged registering clock driver ICs used on DDR5 RDIMM/LRDIMM modules, is estimated at about 120 million units in shipment volume, with an average selling price of around USD 6 per unit. The DDR5 RCD industry chain consists of upstream EDA tools, foundry capacity, packaging and testing, substrates and reliability testing services; midstream DDR5 RCD design, validation and chip supply.

The DDR5 RCD market is mainly driven by the server memory transition toward higher-speed and higher-capacity DDR5 architectures. Cloud computing, AI training and inference, databases, virtualization and HPC workloads continue to raise CPU-side memory bandwidth and capacity requirements, reinforcing the importance of RDIMMs in server memory configurations. As DDR5 data rates move from 4800 MT/s to 5600 MT/s, 6400 MT/s, 7200 MT/s and beyond, memory modules require stronger command/address signal integrity, clock jitter control, power efficiency and platform compatibility, making the RCD a critical enabler of server memory stability and qualification. The continuous launch of higher-generation DDR5 RCDs by Rambus, Renesas and Montage indicates that server platforms, memory module makers and hyperscale customers are driving RCD upgrades in parallel with CPU platform

roadmaps.

This report studies the global DDR5 Registering Clock Driver (RCD) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DDR5 Registering Clock Driver (RCD) 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 DDR5 Registering Clock Driver (RCD) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global DDR5 Registering Clock Driver (RCD) total production and demand, 2021-2032, (Million Units)

Global DDR5 Registering Clock Driver (RCD) total production value, 2021-2032, (USD Million)

Global DDR5 Registering Clock Driver (RCD) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global DDR5 Registering Clock Driver (RCD) consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: DDR5 Registering Clock Driver (RCD) domestic production, consumption, key domestic manufacturers and share

Global DDR5 Registering Clock Driver (RCD) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global DDR5 Registering Clock Driver (RCD) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global DDR5 Registering Clock Driver (RCD) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global DDR5 Registering Clock Driver (RCD) 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 Renesas Electronics, Rambus, Montage Technology, ONE Semiconductor, 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 DDR5 Registering Clock Driver (RCD) 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 DDR5 Registering Clock Driver (RCD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DDR5 Registering Clock Driver (RCD) Market, Segmentation by Type:

4800 MT/s

5600 MT/s

6400 MT/s

7200 MT/s

8000 MT/s and Above

Global DDR5 Registering Clock Driver (RCD) Market, Segmentation by Memory Module Type:

DDR5 RDIMM

DDR5 LRDIMM

Global DDR5 Registering Clock Driver (RCD) Market, Segmentation by Signal Function:

Command/Address Buffering

Clock Distribution

Parity And Training Support

Others

Global DDR5 Registering Clock Driver (RCD) Market, Segmentation by Application:

DRAM Manufacturers

Memory Module Manufacturers

Others

Companies Profiled:

Renesas Electronics

Rambus

Montage Technology

ONE Semiconductor

Key Questions Answered:

1. How big is the global DDR5 Registering Clock Driver (RCD) market?
2. What is the demand of the global DDR5 Registering Clock Driver (RCD) market?
3. What is the year over year growth of the global DDR5 Registering Clock Driver (RCD) market?
4. What is the production and production value of the global DDR5 Registering Clock Driver (RCD) market?
5. Who are the key producers in the global DDR5 Registering Clock Driver (RCD) market?
6. What are the growth factors driving the market demand?

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