

# Compute Express Link (CXL) Memory-Appliance Market Anticipated to Grow at 33.3% CAGR Through 2029: Industry Report

*The Business Research Company's  
Compute Express Link (CXL) Memory-  
Appliance Global Market Report 2025 –  
Market Size, Trends, And Global Forecast  
2025-2034*

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Compute Express Link (CXL) Memory-Appliance  
Global Market Report 2025

How Big Is The [Compute Express Link \(CXL\) Memory-Appliance Market](#) In 2025?

The market size of the compute express link (CXL) memory-appliance has seen a significant



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surge in the past few years. The market, valued at \$1.26 billion in 2024, is predicted to reach a valuation of \$1.69 billion in 2025, marking a compound annual growth rate (CAGR) of 33.7%. This considerable growth during the historic period is largely due to factors such as enhanced data center workloads, mounting demand for applications requiring intense memory, widely increasing adoption of cloud computing, expanding restrictions of traditional interconnect technologies, and an escalating need for workload acceleration.

The market size of the compute express link (CXL) memory-appliance is anticipated to witness a significant upsurge in the forthcoming years, growing to \$5.32 billion by 2029 with a compound annual growth rate (CAGR) of 33.3%. The surge during the prediction phase can be traced back to an increasing adoption of heterogeneous computing, heightened demand for AI and machine learning workloads, an expanding requirement for memory pooling and resource sharing, and escalating commitments from enterprises to high-performance computing. Another factor is the growing adoption of hybrid and multi-cloud models. Key trends in the prediction phase

encompass advancements in memory interconnect technologies, innovations in CXL-based memory appliances, evolution of workload optimization solutions, research initiatives in next-generation data center architecture, and progressions in interoperability and standardization.

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What Are The Key Driving Factors For The Growth Of The Compute Express Link (CXL) Memory-Appliance Market?

The compute express link (CXL) memory-appliance market's potential growth can be attributed to the increase in data-intensive workloads. These workloads incorporate computing tasks that necessitate the processing and analysis of vast amounts of data, necessitating large memory capacity, rapid storage, and efficient interconnects for optimal performance. As artificial intelligence and machine learning applications become more reliant on processing substantial datasets, data-intensive workloads are rising. These applications require advanced storage, high-bandwidth memory, and efficient data transportation to provide accurate insights and facilitate real-time decision-making. By providing scalable, low-latency memory resources, compute express link (CXL) memory appliances can accelerate the management of massive datasets and increase overall processing efficiency. For instance, the CBRE Group Inc., a US-based commercial real estate services and investment firm, reported in June 2024 that North American data center inventory grew by 24.4% year over year in the first quarter of 2024. This growth included an added 807.5 MW coming online across Northern Virginia, Chicago, Dallas, and Silicon Valley. Hence, this increase in data-intensive workloads contributes to driving the compute express link (CXL) memory-appliance market's growth.

Who Are The Key Players In The [Compute Express Link \(CXL\) Memory-Appliance Industry](#)?

Major players in the Compute Express Link (CXL) Memory-Appliance Global Market Report 2025 include:

- Samsung Electronics Co. Ltd.
- Dell Technologies Inc.
- Lenovo Group Limited
- Intel Corporation
- SK hynix Inc.
- Advanced Micro Devices Inc.
- Micron Technology Inc.
- Super Micro Computer Inc.
- Microchip Technology Incorporated
- Cadence Design Systems Inc.

What Are The Prominent Trends In The Compute Express Link (CXL) Memory-Appliance Market?

Leading enterprises in the compute express link (CXL) memory-appliance sector are honing in on producing ingeniously advanced solutions like compute express link (CXL) memory modules to

address the burgeoning needs of Artificial Intelligence, high-performance computing (HPC), and applications that are data-intensive. Compute express link (CXL) memory modules are custom-made memory tools that bind with processors through the CXL protocol, facilitating swift, low-delay memory enhancement, consolidation, and inter-sharing between CPUs and accelerators to boost operation in applications saturated with data. For example, in September 2024, Innodisk Corporation, an industrial flash and storage product brand from Taiwan, unveiled an improved compute express link (CXL) memory module purposed to energize AI servers and the central data systems of multiple cloud service centers. This was in response to an escalating demand for memory bandwidth and capacity. Supporting 64GB, 96GB, and 128GB increments per module, it boasts 32GB/s bandwidth and data transfer speeds reaching 32GT/s through the PCIe Gen5 x8 interface. It also permits memory enhancement while negating the need for supplementary DIMM slots, and endorses memory pooling for the effective distribution of resources between CPUs and parts, thereby reducing delay and system intricacy.

### What Segments Are Covered In The Compute Express Link (CXL) Memory-Appliance Market Report?

The compute express link (CXL) memory-appliance market covered in this report is segmented as

- 1) By Product Type: Compute Express Link Memory Expanders, Compute Express Link Memory Modules, Compute Express Link Memory Switches, Other Product Types
- 2) By Application: Data Centers, High-Performance Computing, Artificial Intelligence And Machine Learning, Cloud Computing, Other Applications
- 3) By End-User: Information Technology And Telecommunications, Banking, Financial Services, And Insurance (BFSI), Healthcare, Government, Manufacturing, Other End-Users

### Subsegments:

- 1) By Compute Express Link Memory Expanders: Registered Memory Expander, Unbuffered Memory Expander, Hybrid Memory Expander
- 2) By Compute Express Link Memory Modules: Volatile Memory Module, Nonvolatile Memory Module, Hybrid Memory Module
- 3) By Compute Express Link Memory Switches: Centralized Memory Switch, Distributed Memory Switch, Hybrid Memory Switch
- 4) By Other Product Types: Custom Memory Appliance, Specialized Memory Module, Experimental Memory Device

View the full compute express link (cxl) memory-appliance market report:

<https://www.thebusinessresearchcompany.com/report/compute-express-link-cxl-memory-appliance-global-market-report>

### Which Region Is Expected To Lead The Compute Express Link (CXL) Memory-Appliance Market By 2025?

In 2024, North America held the predominant share in the global market for Compute Express Link (CXL) memory-appliances. The growth forecast for this region remains positive. This

comprehensive market report encompasses regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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