

Composable Disaggregated Infrastructure Market Forecast 2034: Analyzing Growth Drivers, Segments, And Emerging Trends

*The Business Research Company's
Composable Disaggregated Infrastructure
Global Market Report 2025 – Market Size,
Trends, And Global Forecast 2025-2034*

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Composable Disaggregated Infrastructure Global
Market Report 2025 – Market Size, Trends, And Global
Forecast 2025-2034

Is The [Composable Disaggregated Infrastructure Market](#) Set To Witness Substantial Growth? The composable disaggregated infrastructure sector has seen unprecedented growth in recent years, with projections indicating continued expansion at a rapid pace. The market size is estimated to surge from \$4.89 billion in 2024 to a whopping \$6.44 billion in 2025, expanding at a compound annual growth rate CAGR of 31.6%. This explosive growth can largely be traced back to technological advancements and changing business needs, requiring flexible IT resources, scalability, and efficiency in managing complex IT environments. Moreover, there has been a notable shift towards cloud and hybrid environments, further driving the growth of this sector.

The trajectory of the composable disaggregated infrastructure market doesn't stop at 2025. Into the near future, the market is predicted to continue its remarkable ascension, hitting \$19.11 billion in 2029, with a steady CAGR of 31.3%. The upswing during this forecast period is expected to be driven by a host of interconnected technological and market trends. These include the growing adoption of AI and machine learning, a leap towards edge computing, demand for high-performance computing, enhanced data security needs, and the expansion of IoT applications. Sustainability and energy efficiency are becoming increasingly crucial, with advancements in high-speed interconnect technologies and a shift towards hyper-converged infrastructure marking significant trends during this period. To further streamline operations, there's also a push for automated infrastructure provisioning and management tools.

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What Drives The [Composable Disaggregated Infrastructure Market Growth](#)?

The surge of cloud computing is another dominant force propelling the growth of the composable disaggregated infrastructure market. By offering services like servers, storage, databases, and software over the internet, cloud computing significantly enhances the scalability of resources and eliminates the need for physical infrastructure, making it a preferred solution for contemporary businesses. In fact, according to Eurostat, about 45.2% of enterprises in the EU utilized cloud computing services in 2023, registering a 4.2 percentage point increase since 2021. Composable-disaggregated infrastructure plays a pivotal role in this space, providing an on-demand, flexible, and modular approach to resource management.

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Who Are The Key Players In The Composable Disaggregated Infrastructure Market?

Renowned companies operating within the composable disaggregated infrastructure market include tech giants like Microsoft Corporation, Dell Technologies Inc., and Huawei Technologies Co. Ltd., along with other industry trailblazers such as Lenovo Group Limited, Intel Corporation, International Business Machines Corporation, and Cisco Systems Inc. Recent years have seen these market leaders focusing on advancements in technologies like computational efficiency to maximise resource utilization, boost system performance, and curtail operational costs. For instance, the OpenFabrics Alliance launched the Sunfish project in October 2023, an open-source framework aimed at addressing limitations in composable disaggregated infrastructure, enhancing provisioning and computational efficiency, thereby reducing hardware costs and energy consumption.

How Is The Composable Disaggregated Infrastructure Market Segmented?

- 1 By Component: Hardware; Software
- 2 By Deployment Type: On-Premises; Cloud-Based
- 3 By Enterprise Size: Small And Medium Enterprises SMEs; Large Enterprises
- 4 By End-User Industry: Healthcare; Financial Services; Retail; Telecommunications; Government

Subsegments include specific hardware components like compute nodes, storage systems, networking equipment, and resource pooling devices, while software is categorized into management and orchestration software, automation tools, monitoring and analytics software, and API and integration software.

What Is The Regional Analysis Of Composable Disaggregated Infrastructure Market?

In 2024, North America was the largest region in the composable disaggregated infrastructure market. However, Asia-Pacific is forecasted to be the fastest-growing region in the forthcoming

years.

In conclusion, the composable disaggregated infrastructure market's explosive growth can largely be traced to evolving business needs and technological advancements. With the increasing adoption of cloud computing and other technological trends like AI, machine learning, high-speed interconnect technologies, and edge computing, the market is expected to grow exponentially in the upcoming years.

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