

AI Server DML Manufacturer



Overview

Top Five AI Server Companies for Data Centers and To bring clarity to the market, ABI Research's AI Server OEMs Competitive Ranking Top AI Server Manufactu.

Key Takeaways

Leading AI server manufacturers include Dell, HPE, Lenovo, Huawei, IBM, and specialized providers like AIME, offering high-performance servers optimized for AI workloads. Top AI Server Manufacturers

- Dell Inc. (US) – Dell provides PowerEdge servers optimized for AI workloads, often in collaboration with NVIDIA GPUs and Red Hat Enterprise Linux AI (RHEL AI) to simplify AI deployment and accelerate model training and inference .
- Hewlett Packard Enterprise (HPE, US) – HPE offers the ProLiant DL145 Gen11 and other HPC & AI systems, supporting edge-to-cloud AI workloads. Their solutions include integrated systems for AI, data analytics, and transaction processing, with a strong ecosystem of ISV partners .
- Lenovo (Hong Kong) – Lenovo delivers AI-optimized servers and clusters, focusing on performance, reliability, and scalability for enterprise AI applications .
- Huawei Technologies (China) – Huawei provides AI servers with high-density GPU configurations and advanced cooling solutions, targeting large-scale AI data centers .
- IBM (US) – IBM's AI server offerings include high-performance computing systems designed for AI model training, inference, and enterprise-scale AI workloads .



- AIME (Europe) – AIME specializes in HPC servers, workstations, and AI cloud services. They provide configurable servers based on AMD CPUs, NVIDIA GPUs, and ASUS barebones, offering both purchase and rental options. Their solutions are tailored for deep learning, AI research, and enterprise compute workloads .

Key Features and Trends

- High-Performance GPUs and Accelerators – NVIDIA H100 Tensor Core GPUs, RTX 6000 Ada Generation, and specialized accelerators like TPUs and ASICs are central to AI server performance .
- Pre-Validated Racks and Clusters – Leading manufacturers provide integrated solutions combining compute, networking, and cooling, reducing deployment complexity and enabling rapid scaling .
- Open Architecture – Initiatives like the Open Compute Project (OCP) and Ultra Ethernet Consortium (UEC) promote open designs, reducing vendor lock-in and simplifying infrastructure upgrades .
- Advanced Cooling and Infrastructure Management – AI servers now include sophisticated thermal management, data movement optimization, and lifecycle management software to support large-scale AI workloads .
- Enterprise Services – Vendors offer end-to-end services including planning, deployment, AI workload orchestration, and professional consulting to optimize AI infrastructure .

Market Outlook

The global AI server market is projected to grow from USD 142.88 billion in 2024 to USD 837.83 billion by 2030, at a CAGR of 34.3%, reflecting the increasing demand for AI-optimized computing infrastructure . Enterprises are investing heavily in AI servers to support generative AI, machine learning, and large-scale data processing, making the selection of reliable and scalable AI server manufacturers critical for business success. These manufacturers provide a combination of hardware performance, software integration, and professional services, enabling organizations to deploy AI workloads efficiently and scale their AI infrastructure for future demands.

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Global AI server market and industry trends, 2025

DIGITIMES believes that the global high-end AI server market will evolve towards greater diversification. Global

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