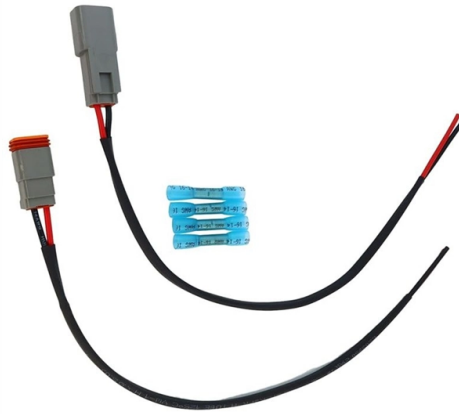


Current Status of AI Server Development



AI Overview

AI server development is rapidly expanding, driven by GPU and ASIC demand, enterprise adoption, and advanced deployment services, with the market projected to surpass \$1 trillion by 2029. Market Growth and Projections The global AI server market is experiencing explosive growth. In 2025, the market was valued at approximately USD 131–167 billion, and it is projected to reach USD 598–1.56 trillion by the early 2030s, with compound annual growth rates ranging from 21% to 34% depending on the source. AI servers are increasingly accounting for a larger share of overall server shipments, with forecasts indicating over 17% of total server shipments in 2026. North America remains a dominant region, holding around 36–38% of revenue share. Key Technologies AI servers rely heavily on GPU-based architectures, particularly Nvidia, which held roughly 70% of the AI chip market in 2025. ASIC-based servers are gaining traction, especially for custom AI workloads, and are expected to surpass GPU shipments in certain regions by 2026. Liquid cooling is becoming the preferred technology for high-density AI racks, supporting the thermal demands of modern GPUs and ASICs. Rack-mounted servers dominate the form factor, while cloud deployment remains the leading deployment model, complemented by edge computing for real-time AI inference. Vendor Strategies and Enterprise Adoption Major vendors like Dell, HPE, Lenovo, and Supermicro are expanding beyond hardware to offer AIOps, modular data centers, and professional services to support enterprise AI adoption. Enterprises often lack the in-house expertise to deploy AI infrastructure, so vendors differentiate through software management tools, automated provisioning, and security features such as silicon root-of-trust and quantum-safe boot-level protections. Sovereign AI initiatives and enterprise AI adoption are emerging as the next growth wave, complementing hyperscaler and neocloud demand. Financial Performance Recent earnings highlight...

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