



## Our vision

*Ampere's vision is to set the new standard for cloud and edge servers and reset expectations for high performance and a better total cost of ownership.*

## Our story

At Ampere, we believe it is time for a new hardware technology that is focused on software with greater speed and efficiency. Inventing what comes next requires a fresh look at everything from the structure of memory and how efficient the system is, to speed considerations, the cost of electricity and the ability to cool. Power, size, weight and cost are driving the technology requirements and the innovation to come.

Ampere employees are innovators with a deep understanding of the requirements of cloud computing and different software environments. Our world class team of engineers, with decades of experience and expertise in the cloud and semiconductor industries, is focused on the development of new designs and building the first software ecosystem for Arm®-based server processors. The Ampere approach to the cloud and edge gives customers the freedom to challenge the status quo and accelerate next-generation data centers for the most memory-intensive applications.

With an entrepreneurial spirit, our engineers are addressing industry challenges in the areas of security, power and performance and are committed to delivering results that matter most to our customers.

## Products built for the cloud

Our Ampere eMAG™ cloud solutions deliver advantages through our high-performance cores, high-speed connectivity, memory throughput, and enterprise grade reliability. These solutions raise the bar on retrieve-and-compute capability in an existing data center footprint while lowering power and operating costs substantially.

The Ampere eMAG platform offers significant total cost of ownership (TCO) value with competitive performance per dollar and performance per watt for high-volume mainstream servers used for edge, storage and web applications. The Ampere eMAG processor is the first in our multi-generation, high-performance product roadmap.

Ampere eMAG Processor Features:

- 32 Ampere-designed Armv8-A cores running up to 3.3 GHz Turbo
- Eight DDR4-2667 memory controllers
- 42 lanes PCIe 3.0 for high bandwidth I/O
- 125W TDP for maximum power efficiency
- TSMC 16nm FinFET process

**FOUNDED IN  
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## Software ecosystem

Open source is a dominant driving force in software with datacenter and cloud ecosystems continuing to grow and evolve at unprecedented speeds, and new technologies being introduced at an equally impressive rate. The software that runs the cloud doesn't have the requirements of the legacy enterprise allowing Ampere to design with a different point of view. Our hardware is being designed to take on these new technologies and cloud workloads, giving the industry a choice.

Ampere is working with communities like Packet, WorksOnArm and OpenJDK to build the software ecosystem, participating in open projects such as the Linux Kernel, gcc/lvm, OpenBMC and other cloud technologies in order to ensure broad compatibility with our eMAG platform.

Additionally, the Ampere Developer Program provides a community and resources including forums, documentation, video tutorials as well as the option to purchase the Ampere eMAG Development Platform and everything you need to get started.

Visit the developer site for more details. [www.developer.amperecomputing.com](http://www.developer.amperecomputing.com)