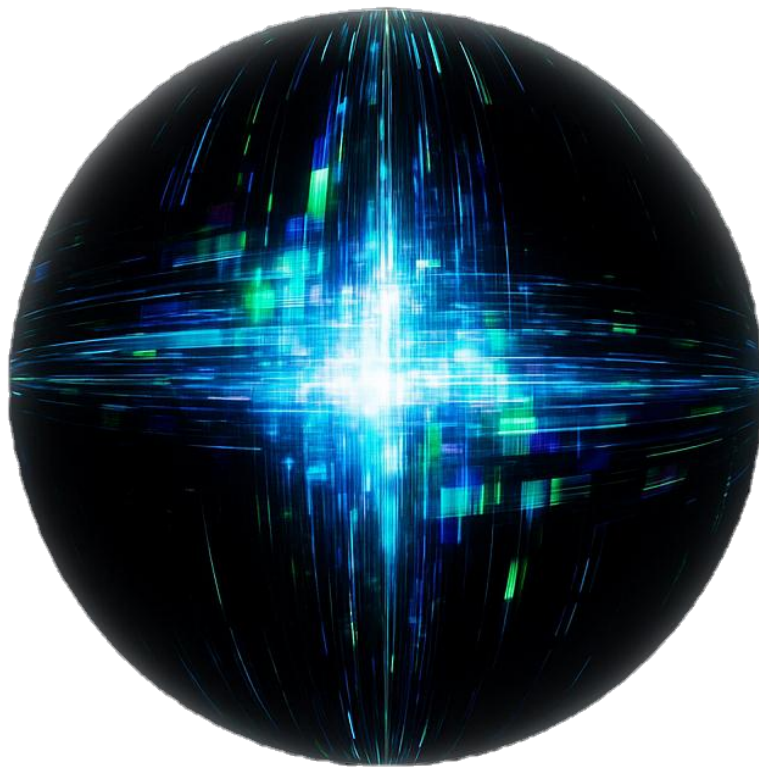

AIRamp-Accelerate Ver. 12.12D



Executive Summary for Cloud Operators and OEMs

The benchmark results for AIRamp-Accelerate reveal a pivotal technology for the AMD GPU ecosystem. By delivering performance speedups of up to **338x** on critical multi-GPU operations, this software directly addresses the core business drivers for cloud providers and hardware manufacturers. For operators, it translates to **massively increased job throughput and higher profit margins** per instance. For OEMs, it creates a **powerful competitive advantage**, enabling their systems to deliver superior benchmark performance and a more compelling Total Cost of Ownership (TCO).

1. Benefits for GPU Cloud & Datacenter Operators

For businesses renting GPU instances, success is measured by maximizing revenue-generating utilization while minimizing operational cost. AIRamp-Accelerate directly enhances both.

- **Increased Job Throughput & Revenue:** A 338x speedup on a bottleneck operation means a customer's job that might have occupied an expensive 8-GPU instance for hours or days can now be completed in a fraction of the time. This frees the instance to be billed to the next customer, transforming a server's revenue potential from one job per day to *multiple jobs per day*.
 - **Competitive Performance & Premium Tiers:** Operators can offer "AIRamp-Accelerated" AMD GPU instances as a premium service. The verifiable performance advantage becomes a key differentiator to attract high-value AI training and HPC customers, justifying higher instance pricing and winning market share.
 - **Reduced Operational Expense (OpEx):** Faster job completion leads to a direct reduction in the total energy () consumed per job. Across a datacenter with thousands of GPUs, this significantly lowers electricity and cooling costs, directly boosting the profitability of every GPU in the fleet.
-

2. Benefits for System OEMs (Original Equipment Manufacturers)

For OEMs like Dell, HPE, and Supermicro, the goal is to sell more servers by demonstrating clear performance and value leadership. AIRamp-Accelerate is a powerful tool to achieve this.

- **Superior Benchmark Performance:** OEMs can bundle AIRamp-Accelerate with their AMD GPU systems. In competitive evaluations and industry benchmarks like MLPerf, this software advantage will allow their hardware to achieve dramatically better scores in multi-GPU tests, providing a crucial, data-backed sales tool.
- **Compelling Total Cost of Ownership (TCO):** The sales proposition shifts from selling hardware to selling a superior solution. An OEM can demonstrate that their 8-GPU accelerated system delivers the throughput of a much larger, more expensive competitor system. This creates a powerful TCO argument based on doing more work with less hardware, power, cooling, and rack space.
- **Enhanced Platform Value:** By integrating AIRamp-Accelerate, OEMs deliver a more complete, optimized, and ready-to-run platform. This reduces the engineering burden on the end customer and builds the OEM's reputation as the premier choice for high-performance, AMD-based AI infrastructure.

Tensor Networks, Inc. — AIRamp-Accelerate. C++/HIP framework for AMD ROCm GPUs, v12.12D.

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