

SambaNova Systems DataScale Powered on the ORock Cloud

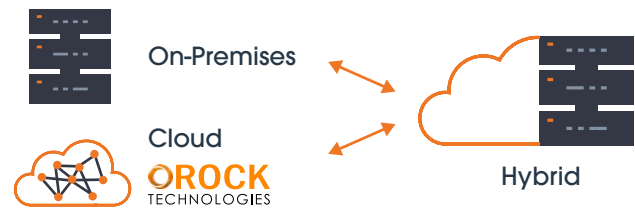
Break through the limits of your GPU with a cloud-based AI solution.

SambaNova Systems DataScale™ is an integrated system optimized for dataflow from algorithms to silicon. SambaNova DataScale is the core infrastructure for organizations that want to quickly build and deploy next-generation AI technologies at scale and is available on ORock's secure, high-performance cloud.

Built on SambaNova Systems Reconfigurable Dataflow Architecture™ (RDA), SambaNova DataScale enables you to achieve unparalleled efficiency and performance across a broad range of applications, including training, inference, data analytics, High Performance Computing (HPC), and more.

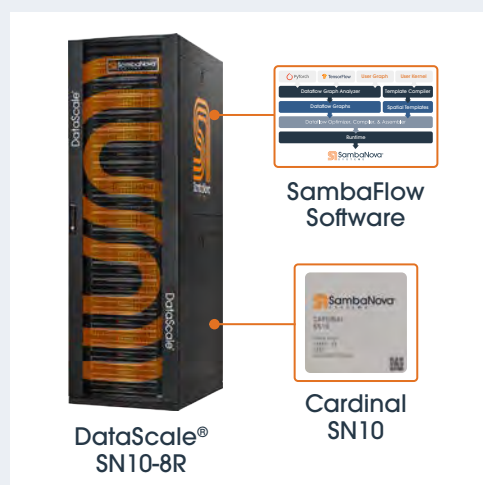
SambaNova DataScale is built with open standards and interfaces to seamlessly integrate into your existing infrastructure and environment—without disruption. With flexibility and efficiency, you can stay current with rapidly changing demands as new breakthroughs emerge and benefit from a flexible and convenient cloud environment.

Flexible Deployment Options



The Industry's Most Advanced Software, Hardware and Cloud

SambaNova DataScale features SambaFlow™, a complete software stack designed to take input from standard machine learning frameworks.



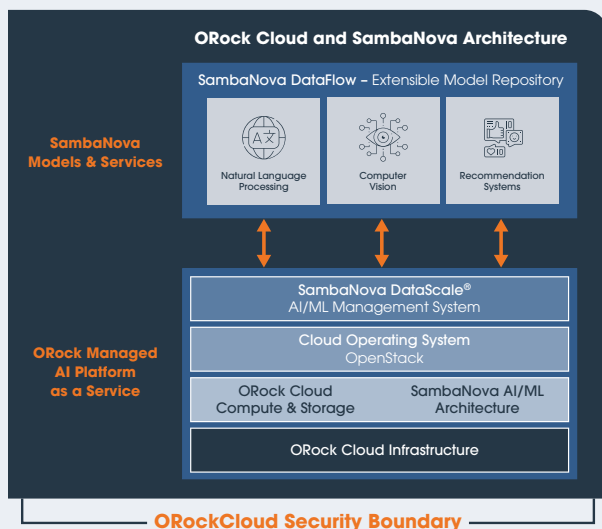
- Fully integrated with popular open source ML frameworks, such as PyTorch and TensorFlow. No code modification is required to run.
- Push-button model compilation, optimization and execution enables high performance out-of-the-box without the need for low-level tuning.
- Automated data and model parallel mapping simplifies scaling by using the same programming model as on a single device—no special programming required.
- Secure multitenancy and concurrent multi-graph execution provides seamless scale -up and scale -out flexibility to maximize compute and memory resource utilization with no waste.
- The latest productionized algorithms eliminate months of tuning and optimization to allow you to elevate your focus on what matters most—the application.
- Feature rich open-source cloud deployment option allows the SambaFlow stack to be deployed in minutes in a secure public cloud.

World's First Native Dataflow Processor

SambaNova DataScale is built with the SambaNova Reconfigurable Dataflow Unit™ (RDU), the industry's next - generation processor built from the ground up to provide native dataflow processing. Features include:

- **SambaNova Reconfigurable Dataflow Architecture** eliminates the constant data caching and excess data movement deficiencies inherent to today's core-based architectures, unlocking unrivaled efficiency.
- **Optimized data computations** and communications result in high performance at optimal efficiency out-of-the-box across models of all sizes and forms, and for any batch size across training and inference.
- **100s of TFLOPS of compute** delivering unmatched acceleration to drastically reduce time to results.
- **100s of MBs of on-chip memory, 100s of TFLOPS of processing power, and direct interface to TBs of off-chip memory** enable developing and deploying more sophisticated models with richer context than what's possible on a GPU.

SambaNova DataScale powered on the ORock Cloud: Key Benefits



Performance - Optimized hardware and software platform enabling ever increasing sophisticated AI models to perform with faster throughput and lower latency.

Accuracy - Greater control over model precision, image resolutions and embedding tables across model types produces greater accuracy than competing platforms.

Scale - Start small and scale with the convenience and flexibility of available cloud options

Ease of Use - CUDA free computing without vendor lock-in.

Security and Cost Predictability - Secure cloud solution with predictable pricing, zero data egress and easy to understand billing. Start your AI journey with the convenience and flexibility of a public cloud. No upfront capital investment to get started.



For more information visit SambaNova.ai or call +1 650 263-1153 to speak to a SambaNova representative

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