

# AMAX Engineering Transforms AI Workloads with Advanced WEKA Data Platform Integration in AceleMax™ POD

*AMAX and WEKA Partner to Enhance AceleMax™ POD with AI-Native Data Platform, Boosting AI and HPC Performance and Scalability.*

FREMONT, CA, USA, July 17, 2024

/EINPresswire.com/ -- AMAX

Engineering, a leading designer and provider of high-density GPU cluster solutions for AI applications, is excited to announce its collaboration with WEKA, the AI-native data platform company, to integrate the WEKA® Data Platform into its next-generation AceleMax™ POD solution. Powered by next-generation GPUs, this rack-scale solution is designed to supercharge AI and high-performance computing (HPC) workloads and deliver outstanding performance, efficiency, and scalability for AI-driven enterprises.



The AceleMax™ POD with the WEKA Data Platform supercharges AI and HPC Workloads

[Discover The AceleMax™ POD with the WEKA® Data Platform.](#)

Advancing the AI Factory with Solutions Engineered to Address Industry Challenges

As AI continues transforming industries, the demand for powerful and efficient computing solutions has never been greater. AMAX Engineering is driving innovation by providing next-gen GPU clusters that meet the rigorous demands of AI and machine learning workloads. Through its collaboration with WEKA, AMAX is enhancing its offerings for companies with AI workloads, providing optimal performance and efficiency for model training and inference.

The WEKA Data Platform provides a unified software solution for data storage, processing, and analysis. Its high-performance data pipeline-oriented architecture and parallel processing capabilities accelerate AI model training and inference, predictive analytics, and real-time data

processing, helping enterprises extract actionable insights from their data assets and drive informed decision-making.

**Meeting the Growing Demand for Advanced GPUs:** AI development is often hindered by a shortage of GPUs and inefficient data storage systems that keep GPUs idle up to 50% of the time. AMAX's new AceleMax POD GPU cluster solution, powered by the WEKA Data Platform, helps to dramatically increase GPU utilization by eliminating data stalls and providing low latency access to data, regardless of size or quantity.

**Optimizing Small File Handling:** Traditional storage and data management systems struggle with the high-volume, small-file I/O operations typical in AI workloads. The WEKA Data Platform handles these efficiently, ensuring GPUs are continuously fueled with the data they need to maximize performance.

### Key Benefits of the AceleMax POD with WEKA Data Platform Solution

#### Accelerated AI Model Training and Development:

- **Faster Training Cycles:** Eliminating data bottlenecks and ensuring a continuous flow of data to the GPUs expedite the training cycles, allowing AI models to be developed and refined much faster. This reduction in training time translates into quicker iterations and faster deployment of AI solutions.
- **Improved Accuracy:** Continuous data feeding ensures thorough training and more accurate models. Seamless integration between the WEKA Data Platform and the next-generation GPUs means that large datasets can be processed more efficiently, allowing for more comprehensive training and validation of AI models. This leads to higher accuracy and better performance of AI applications.
- **Quick Project Initiation:** Efficient use of GPUs lowers costs and enables AI projects to scale and perform at their maximum potential. This is essential for enterprises looking to stay ahead in competitive markets, as it allows for faster AI model development and deployment of AI-driven solutions.
- **Scalable Infrastructure:** The AMAX AceleMax POD scales from a single rack to hyperscale levels, supporting AI companies' growth and changing needs. AMAX's modular design allows for easy scaling of compute and storage resources, ensuring the data infrastructure can grow with the increasing demands of AI workloads. This scalability is essential for enterprises looking to expand their AI capabilities without facing significant infrastructure challenges.

#### Cost Efficiency:

- **Open Hardware Utilization:** By deploying on standard open servers, AMAX offers a cost-effective solution without compromising performance. Open hardware reduces the overall price of the infrastructure while still providing high performance and reliability.
- **Optimized Resource Management:** The WEKA platform's efficient data management reduces the need for expensive, high-maintenance storage solutions. Its advanced data handling capabilities minimize the requirement for multiple data copies and complex storage hierarchies, resulting in lower operational costs and simplified data management. This optimization allows

enterprises to focus their resources on AI development instead of managing complex storage infrastructure.

- **Advanced Cooling:** To address the thermal demands of the next-generation GPUs, AMAX AceleMax POD are configurable with air and liquid-cooled rack solutions. These advanced cooling technologies are engineered to manage the elevated heat output of these GPUs, ensuring optimal performance and reliability. AMAX's air-cooled solutions provide efficient and cost-effective cooling, while the liquid-cooled options offer advanced thermal management for high-density deployments, allowing access to the latest technology and enhancing system longevity.

#### About AMAX Engineering

Founded in 1979, AMAX Engineering is a global leader in the design and deployment of high-performance computing solutions. Specializing in GPU clusters for AI workloads, AMAX delivers customized, scalable solutions that empower businesses to harness the full potential of AI and machine learning technologies.

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