NEWS RELEASE

Penguin Solutions Introduces High-Bandwidth SMART Modular MRDIMMs for Next-Generation AI Data Centers

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New memory modules accelerate data throughput and offer optional Zefr® testing for enhanced reliability in demanding AI workloads

FREMONT, Calif.--(BUSINESS WIRE)-- **Penguin Solutions**, Inc. (Nasdaq: **PENG**), the AI Factory Platform Company, today announced its newest SMART Modular DDR5 Multi-Ranked Dual In-line Memory Module (MRDIMM), expanding its portfolio of memory solutions designed for AI data centers. Running at industry-leading DDR5-12800 speeds, these new MRDIMMs address growing bandwidth demand created by the exponential growth in AI inference and agentic AI workloads.

Demonstrating Penguin's expertise at the intersection of data center AI infrastructure and memory solutions, the SMART Modular MRDIMMs include industry-leading thermal and electrical protections and utilize an innovative architecture that multiplexes two physical ranks into a single logical rank to avoid traditional speed limitations. This significantly increases memory bandwidth compared to standard RDIMMs, helping improve memory subsystem performance for next-generation server platforms.

To ensure mission-critical stability at these unprecedented speeds, the MRDIMMs are available with Penguin's proprietary and comprehensive Zefr high-reliability testing. This rigorous memory screening process simulates demanding real-world operating conditions to help identify and mitigate potential timing and electrical signal integrity issues, delivering dependable performance and data integrity required for mission-critical AI infrastructure.

"As AI workloads become increasingly memory-intensive, customers need greater bandwidth without

compromising reliability," said Arthur Sainio, Director of Integrated Memory Product Marketing for Penguin Solutions. "Our latest SMART Modular MRDIMMs combine DDR5-12800 data rates with optional Zefr high-reliability testing to help customers improve memory performance and support the demanding requirements of applications such as financial services."

Key markets and applications for these advanced memory modules include:

- Generative AI & LLM Inference: Accelerating processing and response times for large language models.
- High-Frequency Trading: Minimizing latency and maximizing throughput for split-second financial transactions.
- High-Performance Computing (HPC): Powering complex scientific simulations and data-intensive research.

For more information on this new product, please visit the **SMART Modular MRDIMM product page** or **contact us** for more details.

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About Penguin Solutions

Penguin Solutions is the AI Factory Platform Company. We design, build, and manage next-generation data centers for enterprises, sovereign AI initiatives, and neocloud providers.

With deep design expertise at the intersection of data center AI infrastructure and memory solutions, our Full-Stack AI Factory Platform combines differentiated infrastructure software, advanced memory, compute systems, end-to-end services, and industry-leading partner technologies to help customers accelerate deployment, optimize token economics, and maximize the return on their AI investments.

Learn more at **PenguinSolutions.com**.

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