Press Release

EIZO Unveils Next Generation SOSA-Aligned 3U VPX Video Graphics Cards Powered by NVIDIA Blackwell Architecture

- *EIZO's Condor GR5SL 3U VPX Series features NVIDIA RTX PRO™ 5000/4000 Blackwell GPUs with GDDR7 Memory and support for fifth-generation Tensor Cores and fourth-generation RT cores.*
- *The cards are designed in line with the SOSA Technical Standard supporting 14.6.11 and 14.6.13 Slot Profiles.*

Orlando, Florida, March 19, 2025 – EIZO Rugged Solutions Inc., a leading provider of ruggedized AI-accelerated video, graphics, and GPGPU processing hardware, proudly announces NVIDIA Blackwell support for its Condor GR5SL Series. This series introduces two SOSA-aligned 3U VPX video graphics cards designed for ruggedized high-performance embedded (HPE) applications: Condor GR5SL-B5000 and Condor GR5SL-B4000.

Developed in alignment with the SOSA® Technical Standard, the Condor GR5SL Series ensures interoperability, scalability, and superior performance for modern C5ISR and high-performance embedded computing (HPEC) applications. The series features a new thermal design that significantly enhances efficiency and reduces throttling, enabling consistent performance even in extended temperature ranges. To address diverse thermal requirements, the products are available in conduction-cooled (CC) [VITA 48.2] and Air Flow-Through (AFT) [VITA 48.8] variants.

The NVIDIA Blackwell architecture features groundbreaking compute-performance upgrades for HPE applications, including GDDR7 graphics memory, support for PCI Express Gen 5, advanced Blackwell CUDA cores, and features fifth-generation Tensor Cores and fourth-generation RT cores. As the first architecture to support GDDR7 in embedded environments, NVIDIA Blackwell offers exceptional memory bandwidth and efficiency, ideal for demanding ISR computing scenarios.

The fifth-generation Tensor Cores accelerate AI workloads such as deep learning inference and data analytics, while the fourth-generation RT Cores deliver outstanding real-time ray tracing performance. These advancements provide the computational power required for AI-driven analytics, sensor fusion, and mission-critical processing in C5ISR applications. The Blackwell architecture introduces groundbreaking capabilities for generative AI and accelerated computing at the edge.

"The Condor GR5SL Series with NVIDIA Blackwell GPU support sets a new benchmark for GPU-powered video graphics and GPU processing in rugged environments," said Chris Fadeley, Chief Technology Officer at EIZO Rugged Solutions. "Our upgraded thermal design allows these solutions to maintain exceptional performance even in extreme conditions, ensuring reliable operation in high-compute, mission-critical scenarios."

Designed to meet MIL-STD-810 environmental specifications for temperature, shock, and vibration, the Condor GR5SL Series delivers robust performance in the most demanding environments. The series is fully aligned with the SOSA® Technical Standard, supporting 14.6.11 and 14.6.13 slot profiles, reinforcing its versatility and readiness for next-generation HPE deployments.

About EIZO Rugged Solutions

EIZO Rugged Solutions Inc. has been developing graphics and video solutions for high-performance embedded applications for over 30 years. The AS9100D / ISO9001:2015 certified company offers a range of commercial off-the-shelf (COTS) products targeted at video capture, processing, display, compression, streaming, GPGPU, Artificial Intelligence (AI), video format conversion, and data archival. The company designs and manufactures its core MIL-STD-810 graphics and video products in the USA, serving customers in security, ISR, aerospace, avionics, transportation, maritime, and industrial markets. Its rugged monitors offer the high quality, reliability, and long-term availability needed to meet the stringent requirements of defense and other niche markets.