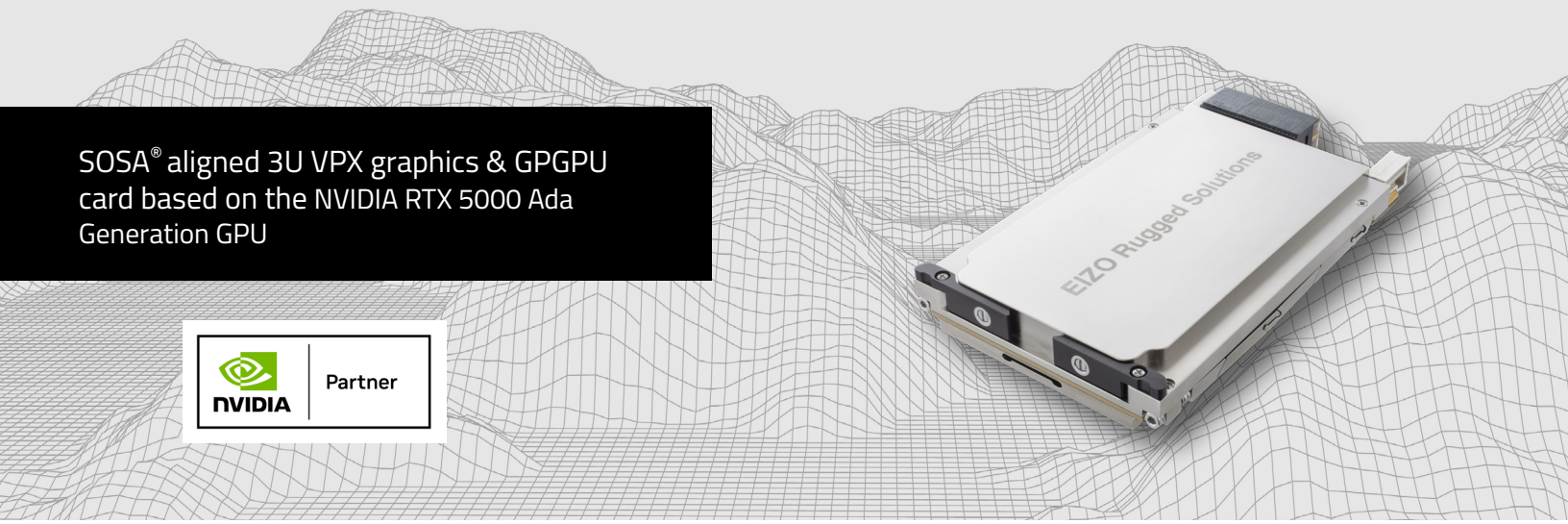
Condor™ GR2S-AD5000

SOSA® aligned 3U VPX graphics & GPGPU card based on the NVIDIA RTX 5000 Ada Generation GPU



NVIDIA Partner

VIDEO CAPTURE & GPGPU CARD

NVIDIA RTX™ 5000 Ada Generation GPU

SOSA ALIGNED SOLUTION

Available with SOSA® aligned slot profiles and VITA standards with multiple I/O configurations

HIGH-PERFORMANCE GPGPU COMPUTING

Embedded GPGPU solution featuring configurable PCIe Gen 4 Switch

SOSA Aligned 3U VPX High-Performance Graphics & GPGPU Card

The Condor™ GR2S-AD5000 is a rugged 3U OpenVPX video graphics and GPGPU processing module designed to bring high-performance GPU acceleration to compute-intensive embedded applications. Powered by the NVIDIA® RTX™ 5000 Ada Generation GPU, the module combines advanced graphics, AI, and parallel processing capabilities within a compact 3U VPX form factor.

Built on the NVIDIA Ada Lovelace architecture, the GR2S-AD5000 features 9,728 CUDA® cores, 304 fourth-generation Tensor Cores, 76 third-generation RT Cores, and 16 GB of GDDR6 memory with ECC. This combination provides the processing performance needed to accelerate workloads such as AI inference, sensor and image processing, visualization, multi-sensor data processing, and other compute-intensive applications at the edge. These processing capabilities provide the compute performance needed to accelerate workloads such as AI inference, sensor and image processing, visualization, multi-sensor data processing, and other tactical edge workloads. An integrated PCI Express® Gen 4 switching architecture further supports high-bandwidth communication throughout the system. Configurable x4, x8, or x16 PCIe connectivity, PCIe bifurcation, and multi-card expansion provide system designers with greater flexibility when integrating the module into scalable OpenVPX architectures.

Designed in alignment with the SOSA® Technical Standard, the Condor GR2S-AD5000 provides system integrators with a standards-based path to incorporating advanced NVIDIA GPU technology into next-generation OpenVPX systems. Available in conduction-cooled configurations, the module is engineered for deployment in rugged environments where reliable operation, thermal management, and long-term performance are critical.

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Condor GR2S-AD5000 Specifications

Interface
3U VPX Form Factor
1" Pitch (Conduction Cooled)
PCIe Gen 4

Graphics Processor
NVIDIA RTX 5000 GPU (Ada Generation)
DirectX12, OpenGL 4.6, Vulkan 1.3

Graphics Memory
16 GB GDDR6 with Error Correction Code
256-bit Memory Interface
576 GB/s Memory Bandwidth

PCIe Switch
Switchtec™ PFX PCIe® Gen 4 Switch
Industrial Temperature

GPGPU Capabilities
9728 CUDA Cores. 304 Tensor Cores. 76 RT Cores.
Up to 32.7 TFOPS FP32 Single Floating Point Performance
Supports CUDA, CUDA-X, OpenCL™ and Shader Model 6.7
H.265 (HEVC) / H.264 (MPEG4/AVC), AV1 Hardware Encode & Decode
NVIDIA GPUDirect® RDMA, NVENC, NVDEC

SOSA Slot Profiles
SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11-0
SLT3-PAY-1F1U1S1S1U1U4F1J-14.6.13-0

Software & Platform Support
Windows or Linux on x86

Operating Temperature ((VITA 47.1)
RC4 (Conduction Cold Wall, VITA 48.2
-40C to 71C)

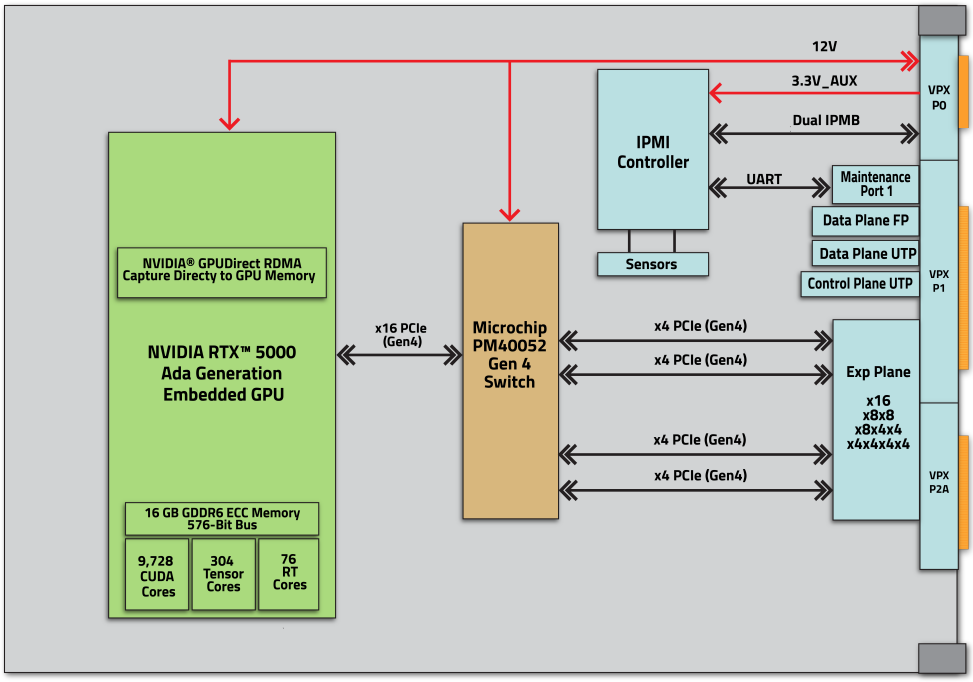
Power
12V supply only needed
90W- 130W (factory configurable)

Vibration (MIL-STD-810)
0.1 g²/Hz

Shock (MIL-STD-810)
40 g

Humidity (MIL-STD-810)
95% Without Condensation

Condor GR2S-AD5000 Block Diagram



SOSA Aligned Payload:
SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11-0
SLT3-PAY-1F1U1S1S1U1U4F1J-14.6.13-0

EIZO Rugged Solutions

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