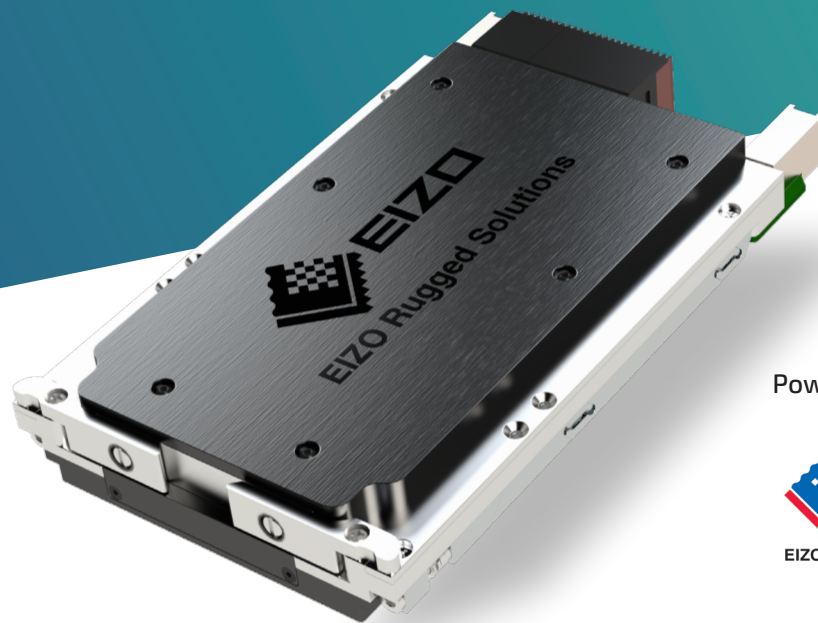


Condor™ GR5SL-B4000

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

SOSA®-aligned 3U VPX graphics & GPGPU card based on the NVIDIA RTX PRO™ 4000 Blackwell GPU



Powered by



Video graphics & GPGPU card

NVIDIA RTX PRO™ 4000 GPU (Blackwell architecture)

AI-accelerated computing

7,680 CUDA cores, 240 Tensor cores, and 60 RT cores

SOSA-aligned solution

SOSA® compute intensive slot profile: 14.6.11-0 & 14.6.13-0

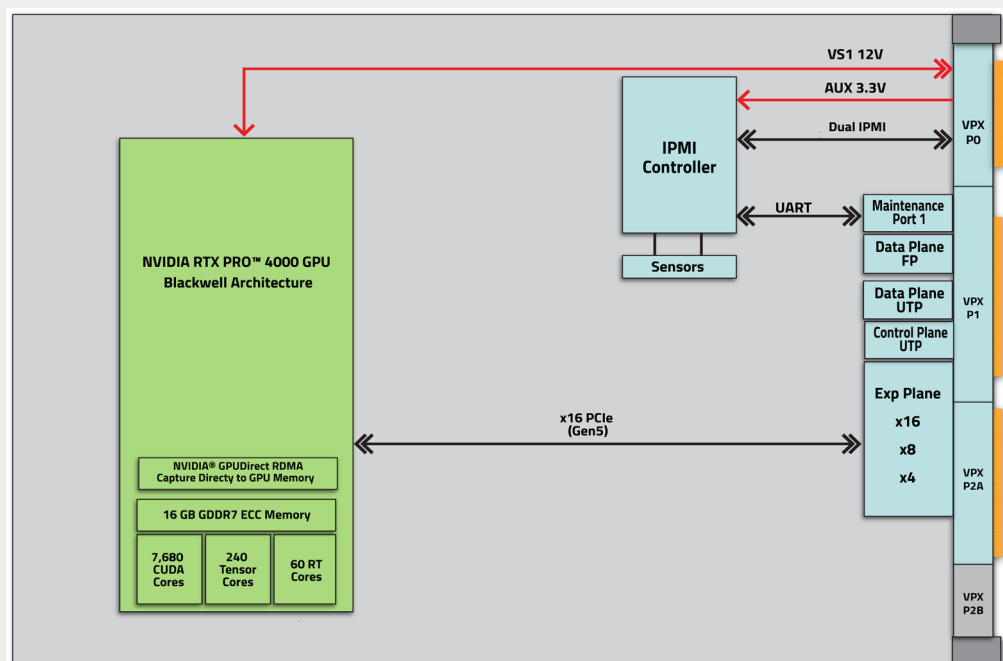
3U VPX Graphics & GPGPU Card

The Condor GR5SL-B4000 is a rugged 3U OpenVPX GPGPU card built with the advanced NVIDIA RTX PRO™ 4000 Blackwell GPU. Featuring 16 GB of GDDR7 graphics memory with ECC and 256-bit memory interface, the product provides groundbreaking performance and efficiency, especially for edge computing and AI inferencing. As the first architecture to support GDDR7 memory and PCI Express Gen 5, NVIDIA Blackwell delivers significant advancements in data transfer speeds and performance per watt, making it an ideal choice for demanding high-performance computing environments.

Developed in alignment with the SOSA® Technical Standard, the Condor GR5SL-B4000 ensures interoperability, scalability, and superior performance for modern C5ISR and high-performance embedded computing (HPEC) applications. The graphics card is available in both conduction-cooled (CC) [VITA 48.2] and Air Flow Through (AFT) [VITA 48.8] variants to address various thermal needs. The product features a new thermal design that significantly improves thermal efficiency and minimizes

throttling at higher temperatures.

The NVIDIA RTX PRO™ 4000 Blackwell GPU includes 7,680 CUDA cores, 240 Tensor Cores (5th Generation), and 60 RT Cores (4th Generation), enabling exceptional capabilities for AI-accelerated data processing, AI inferencing, and real-time situational analysis. Blackwell incorporates advanced video encoder engines, including 9th Gen NVENC encoders with 4:2:2 support and 6th Gen NVDEC decoders, delivering exceptional video compression and playback performance for mission-critical applications. In addition, the GPU supports NVIDIA GPUDirect® Remote Direct Memory Access (RDMA) which significantly reduces data transfer latency and enhances bandwidth, enabling faster data transfers and improved overall system performance.



SOSA-aligned Payload:

SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11-0
 SLT3-PAY-1F1U1S1S1U1U4F1J-14.6.13-0

Technical Information

Interface	3U VPX Form Factor
	1" Pitch Conduction Cooled (VITA 48.2)
	1.2" & 1.5" Pitch AFT (Vita 48.8) on demand
	PCIe Gen 5
Graphics Processor	NVIDIA RTX PRO™ 4000 Blackwell GPU
Graphics Memory	16 GB GDDR7 with Error Correction Code
	256-bit Memory Interface
GPGPU Capabilities	7,680 CUDA Cores. 240 Tensor Cores. 60 RT Cores.
	Up to 1334 FP4 AI TOPS Performance
	Supports CUDA, CUDA-X, OpenCL™ and Shader Model 6.8
	H.265 (HEVC) / H.264 (MPEG4/AVC), AV1 Hardware Encode & Decode
	9th Gen NVENC Encoders with 4:2:2 support
	6th Gen NVDEC Decoders
	NVIDIA GPUDirect® RDMA
Slot Profiles	SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11-0
	SLT3-PAY-1F1U1S1S1U1U4F1J-14.6.13-0
Software & Platform Support	Windows or Linux on x86
	DirectX 12, OpenGL 4.6, Vulkan 1.4
Power	12V Vss; 3.3Vaux Power Supply
	90–150 W Power Consumption

Environmental Specification

Operating Temperature (VITA 47.1)	CC4 (-40C to 85C) at Card Edge
	AFT2 (-40C to 55C) on demand
Vibration (VITA 47.1 V3)	0.1 g ² /Hz
Shock (VITA 47.1 OS2)	40 g
Humidity	95% Without Condensation

Condor GR5SL-B4000

3U VPX Graphics & GPGPU Card



Ordering Information

Article	Ordering	Description
Condor GR5SL-B4000, CCW4, x8 PCIe, No P2	1081-4126	3U VPX NVIDIA B4000 GPU, no PCIe switch. Conduction Cooled (-40 to 85C). SOSA Aligned, compatible with slot profile: 14.6.11-n. Pitch = 1.0 in. Conformal coated.

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