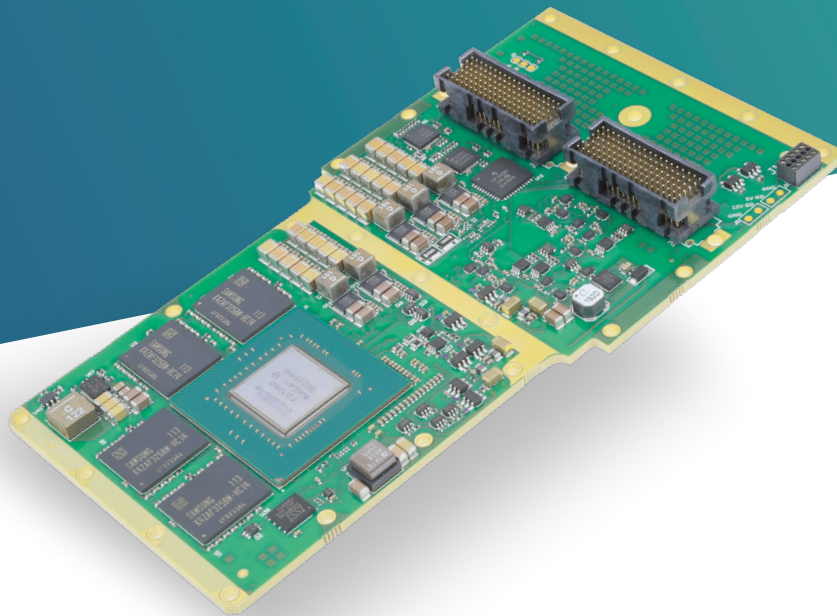


Condor NVB2000xX

AI-Accelerated XMC Graphics & GPGPU Card

Embedded XMC graphics & GPGPU card powered the NVIDIA RTX PRO™ 2000
Blackwell GPU



Powered by



EIZO Rugged Solutions

High Performance GPU

NVIDIA RTX PRO™
2000 Blackwell GPU

Accelerated Computing

3,328 CUDA Cores,
104 Tensor Cores, and
26 RT Cores

Flexible Outputs

Three DisplayPort++
/ DVI Video Outputs

XMC Graphics & GPGPU Card

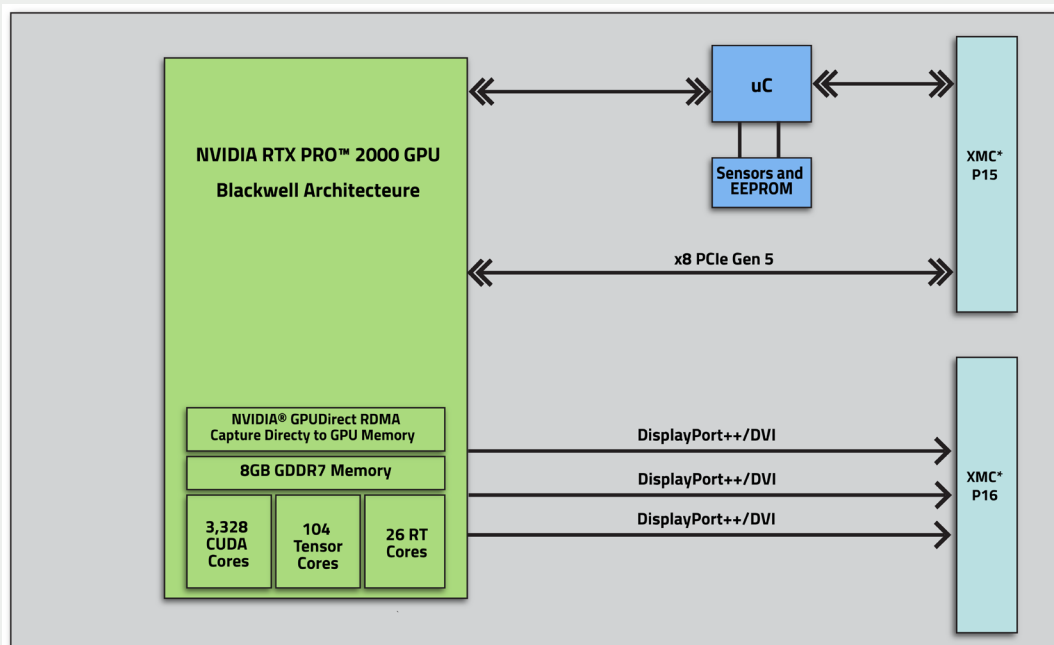
AI-Accelerated XMC Graphics & GPGPU Card with Three Outputs

The Condor NVB2000xX is a rugged XMC video graphics and GPGPU card built with the advanced NVIDIA RTX PRO™ 2000 Blackwell GPU supporting 8 GB of GDDR7 graphics memory with Error Correction Code (ECC) and 128-bit memory interface.

As the first architecture to support GDDR7, NVIDIA Blackwell delivers significant advancements in bandwidth speed, improved signal integrity, and reduced energy usage and power consumption, making it an ideal choice for demanding high-performance computing environments. This XMC graphics card supports three DisplayPort++/DVI video outputs.

The NVIDIA RTX PRO™ 2000 Blackwell GPU includes 3,328 CUDA cores, 104 fifth-generation Tensor Cores, and 26 fourthgeneration RT Cores, enabling exceptional capabilities for AI-accelerated data processing, deep learning, and real-time situational analysis. Designed to

meet the needs of next-generation systems, the Condor NVB2000xX supports PCI Express Gen 5 for accelerated data transfer speeds and seamless system integration. 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 latency and enhances bandwidth, enabling faster data transfers and improved overall system performance. The rear XMC pin-out is compatible with 3U and 6U VPX systems that follow VITA 46.9 x12d+x8d+24s.



*Options in:

* XMC1.0 VITA42, XMC2.0 VITA61, and XMC+ VITA88 all available

XMC Graphics & GPGPU Card

Technical Information

Interface	XMC 1.0, XMC 2.0 or XMC+
	8 Lane PCIe Gen 5
Graphics Processor	NVIDIA RTX PRO™ 2000 Blackwell GPU
Graphics Memory	8 GB GDDR6 with ECC memory
	128-bit Memory Interface
GPGPU Capabilities	3,328 CUDA Cores. 104 Tensor Cores. 26 RT Cores
	Up to 798 Peak Tensor Tflops (AI TOPS)
	Supports CUDA, CUDA-X, OpenCL and Shader Model 6.8
	H.265 (HEVC) / H.264 (MPEG4/AVC), AV1 Hardware Codec
	9th Gen NVENC Encoders with 4:2:2 support
	6th Gen NVDEC Decoders
	NVIDIA GPUDirect® RDMA
Video Outputs	Three DisplayPort++/DVI
	Rear Pn6 XMC I/O. VITA 46.9 x12d+x8d+24s
Software & Platform Support	Windows or Linux on x86
	VPX & PCIe
	Supporting DirectX 12, OpenGL 4.6 and Vulkan 1.4
Power Consumption	35W - 60W

Environmental Specification

Operating Temperature (MIL-STD-810)	-40°C to 70°C (Rugged Air Cooled)
	-40°C to 85°C (Rugged Conduction Cooled)
Vibration (MIL-STD-810G)	0.1 g ² /Hz
Shock (MIL-STD-810G)	40 g
Humidity (MIL-STD-810G)	95% Without Condensation

XMC Graphics & GPGPU Card

Ordering Information

Article	Ordering Code	Description
Condor NVB2000xX, 3xDP++, CC4, XMC 1.0	1081-4123	XMC 1.0 NVIDIA B2000 GPU. Rugged Conduction Cooled (-40 to 85C). (3) Rear DP++ outputs. Conformal coated.

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More Information



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