



Condor NVP2000xX



NVIDIA® Quadro® P2000 (GP107) XMC Graphics & GPGPU Card with Three Rear XMC I/O DisplayPort++ Video Outputs

The Condor NVP2000xX is a rugged XMC graphics & GPGPU card based on the NVIDIA Quadro P2000 (GP107) GPU featuring NVIDIA Pascal GPU architecture. The board is designed for use in applications that require very high-end graphics capabilities or CUDA support when performing GPGPU. This extremely rugged chip-down design, with the GPU directly on the XMC card, brings the power of NVIDIA and CUDA to a small form factor XMC card for the first time. The board has three DisplayPort++ video outputs available from the rear XMC I/O connector Pn6.

The board is currently being offered in Conduction Cooled or Air Cooled. The rear XMC pin-out is compatible with 3U and 6U VPX systems that follow VITA 46.9 x12d+x8d+24s. 3U VPX and PCIe form factors are supported with carrier boards. This board can be used in conjunction with our Adapt™ series product line to output DVI or VGA.

The Condor NVP2000xX graphics processor is ideal for general purpose graphics processing unit (GPGPU) applications such as radar and video surveillance/analysis. At the maximum power consumption, the card provides 2.3 TFLOPs of single precision floating point compute performance (FP32). Another powerful feature is the H.265 (HEVC) / H.264 hardware encode/decode capability. Video data can also be sent over PCIe directly to GPU memory for analysis/processing using NVIDIA GPUDirect DMA. Windows or Linux drivers are available for x86 systems.

The product comes with EIZO Rugged Solutions' commitment of long term product availability. This comes with the legendary support of our seasoned team members, who may offer immediate assistance to troubleshoot and resolve any technical challenges.

EIZO Rugged Solutions has provided graphics solutions for over three decades and has always met customer needs with long term commitment and support.

Key Features

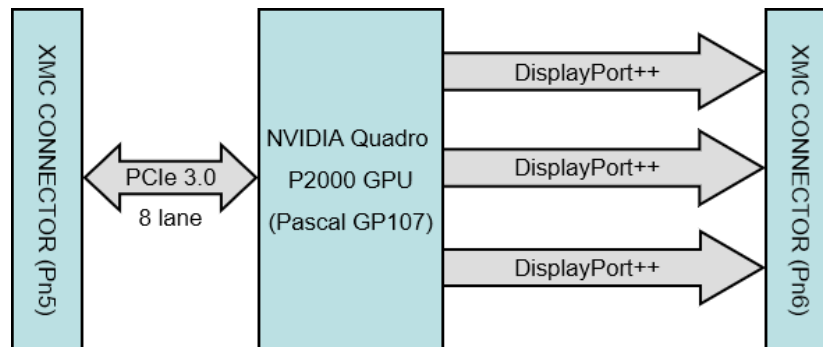
- NVIDIA Quadro P2000 GPU (Pascal GP107)
- XMC Form Factor (3U VPX & PCIe w/ carrier board)
- Rear XMC I/O : Three DisplayPort++ Video Outputs (VITA 46.9, x12d+x8d+24s)
- GPGPU - Supports CUDA 6.1 and OpenCL 1.2
- 4 GB GDDR5 Graphics Memory
- 128-bit Memory Width
- 96 GB/s Memory Bandwidth
- 768 NVIDIA CUDA Cores
- 2.3 TFLOPs of CUDA Processing Performance
- OpenGL 4.5, DirectX 12
- H.265 (HEVC) / H.264 Hardware Encode/Decode
- NVIDIA GPUDirect DMA
- MIL-STD-810G Certified
- Conduction Cooled & Air Cooled
- Long Term Product Availability
- Comprehensive Customer Care

*For products with inputs, please refer to
Condor NVP21XX brochures.*

Condor NVP2000xX Specifications

Graphics Processor	NVIDIA Quadro P2000 GPU (Pascal GP107, chip-down) Supporting DirectX 12 and OpenGL 4.5 H.265/H.264 Hardware Encode & Decode Capability NVIDIA GPUDirect DMA
Interface	XMC 1.0 or XMC 2.0 8 Lane PCIe 3.0 (PCIe and 3U VPX Carrier Boards Available)
Graphics Memory	4 GB GDDR5 128-bit Memory Width 96 GB/s Memory Bandwidth
Video Outputs	Rear Pn6 XMC I/O : Three DisplayPort++ (VITA 46.9 x12d+x8d+24s)
GPGPU Capabilities	Supports CUDA 6.1, Open CL 1.2 and Shader Model 5.0 768 NVIDIA CUDA Cores 2.3 TFLOPs FP32 Single Floating Point Compute Performance Peak
Power Rating	25 - 50W
Operating Temperature (MIL-STD-810G)	-45°C to 85°C (Rugged Conduction Cooled) -40°C to 70°C (Rugged Air Cooled) 0°C to 55°C (Standard Air Cooled)
Humidity	95% Without Condensation
Vibration (MIL-STD-810G)	0.1 g ² /Hz
Shock (MIL-STD-810G)	40g
Software & Platform Support	Windows or Linux on x86 VPX & PCIe

Condor NVP2000xX Block Diagram



Bringing your projects to life™



EIZO Rugged Solutions
Formerly Tech Source

9/27/2018 Rev A

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