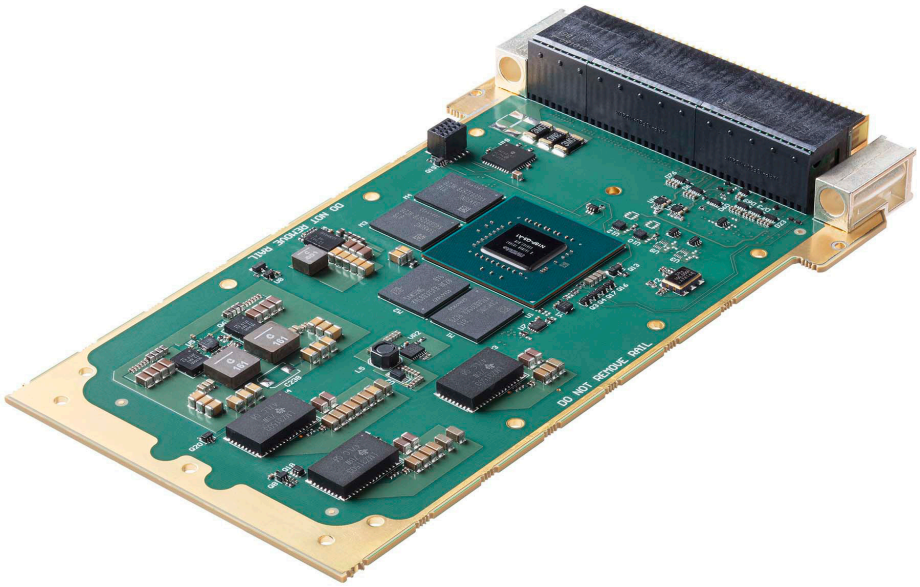
Condor GR5-P2000



NVIDIA® Quadro® Pascal™ P2000 3U VPX Graphics & GPGPU w/ DVI/DP Outputs

The Condor GR5-P2000 is a 3U VPX graphics & GPGPU card that is based on the "chip-down" NVIDIA® Quadro® Pascal™ P2000 GPU (GP107). This rugged chip-down VPX card brings the power of NVIDIA and CUDA without a multi-chip module. It also offers very high GPGPU performance using CUDA™ or OpenCL™ up to 2.3 TFLOPs floating-point performance.

The Condor GR5-P2000 supports two DisplayPort™ 1.2 (4K @ 60Hz) and two single-link DVI-D ports (1,920 x 1,200 @ 60Hz). There are many customizations that are possible such as different video outputs from the rear VPX connectors or a front I/O configuration. This VPX card is ideal for GPGPU applications that can leverage the enormously parallel nature of the Pascal architecture, such as artificial intelligence, machine learning, autonomous systems and high performance embedded computing (HPEC) applications such as C5ISR and remote sensing and analysis. The card is available in air cooled or conduction cooled with thermally efficient heatsink technology and rear I/O.

NVIDIA PREFERRED PARTNER

Key features of this product:

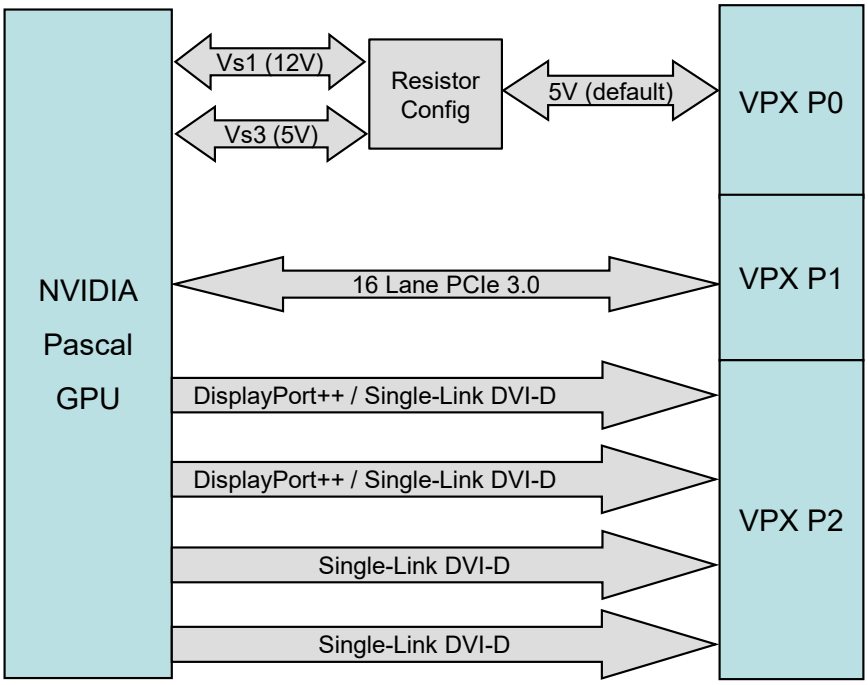
- NVIDIA® Quadro® Pascal™ P2000 GPU (GP107)
- Two Output Configurations: 4 Outputs total
  - (2) Rear DisplayPort++ Video Outputs and
  - (2) Rear Single-Link DVI-D Video Outputs
  - OR
  - (4) Rear Single-Link DVI-D Outputs
- 4 GB GDDR5 Graphics Memory
- 128-bit Memory Interface
- 96 GB/s Memory Bandwidth
- 769 CUDA Cores
- Up to 2.3 TFLOPs FP32 Compute Performance
- 16, 8 or 4 Lane PCI Express 3.0
- NVIDIA CUDA® 10 & OpenCL 1.2 Support
- H.265 & H.264 Hardware Encoder/Decoder
- NVIDIA GPUDirect™ RDMA, NVENC. NVDEC
- MIL-STD-810
- Conduction Cooled & Air Cooled
- Thermally Efficient Heatsink Technology

Fully Ruggedized

Condor GR5-P2000 3U VPX Specifications

Graphics Processor	NVIDIA® Quadro® Pascal™ P2000 GPU (Chip-down GP107) Supporting DirectX 12 and OpenGL 4.5
Interface	3U VPX Form Factor 1" Pitch (Conduction Cooled) 1" Pitch (Air Cooled)
Graphics Memory	4 GB GDDR5 128-bit Memory Interface 96 GB/s Memory Bandwidth
Video Outputs	Two DisplayPort++ & Two Single-Link DVI-D OR Four Single-Link DVI-D
GPGPU Capabilities	768 CUDA Cores Up to 2.3 TFLOPS FP32 Single Floating Point Performance Supports CUDA 10 (Compute Capability 6.1) OpenCL 1.2 and Shader Model 5.1 H.265 (HEVC) / H.264 (MPEG4/AVC) Hardware Encode & Decode NVIDIA GPUDirect™ RDMA, NVENC, NVDEC
Power Consumption	25 - 50 W
Operating Temperature (MIL-STD-810)	-40°C to 70°C (Rugged Air Cooled) -40°C to 85°C (Rugged Conduction Cooled) Please refer to the Condor GR5-P2000 Hardware User Guide for details on temperature/performance characterization.
Vibration (MIL-STD-810)	0.1 g^2/Hz
Shock (MIL-STD-810)	40 g
Humidity (MIL-STD-810)	95% Without Condensation
Software & Platform Support	Windows or Linux on x86 VPX & PCIe

Condor GR5-P2000 3U VPX Block Diagram



EIZO Rugged Solutions

Website: www.eizorugged.com

Email: condor@eizo.com

Rev A