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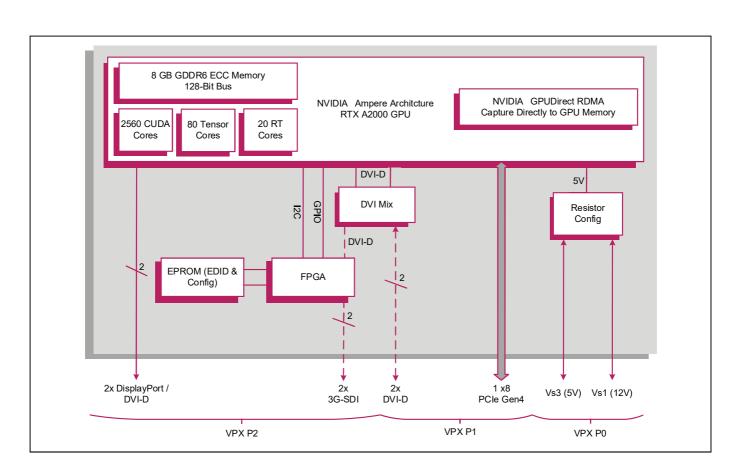
OpenVPX Graphics and GPGPU Card Based on NVIDIA Ampere

Key Features

The Condor GR5-A2000 is a rugged OpenVPX 3U form factor card based on NVIDIA Ampere architecture and the NVIDIA RTX platform. This highly integrated chipdown graphics and GPGPU card meets strict data integrity requirements for mission-critical applications with uncompromised computing accuracy and reliability.

- GPU-based computing supporting 2560 CUDA cores, 20 RT cores and 80 Tensor cores
- 2x the throughput for matrix operations than previous generations
- PCle Gen4 (x4 or x8 lane)
- Real-time performance for encoding applications with dedicated H.265 and H.264 encode and decode engines







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Specification

Graphics Processor

- NVIDIA RTX A2000 GPU (Ampere Architecture)
- supports Microsoft DirectX 12, OpenGL 4.5 and Vulkan 1.2

Graphics Memory

- 8 GB GDDR6 with ECC memory
- 128-bit Memory Interface
- up to 192 GB/s Memory Bandwidth

GPGPU Capabilities

- 2560 CUDA Cores. 80 Tensor Cores. 20 RT Cores.
- up to 9.49 TFLOPS FP32 Single Floating Point Performance
- supports CUDA 11 (Compute Capability 7.5) and CUDA-X
- OpenCL 1.2 and Shader Model 5.1
- H.265 (HEVC) / H.264 (MPEG4/AVC) Hardware Encode and Decode
- NVIDIA GPUDirect RDMA, NVENC, NVDEC

Video Outputs

- up to 4x video outputs accessed via P1 and P2:
 - → 2x DisplayPort and 2x DVI-D or
 - → 4x DVİ-D or
 - → 4x DisplayPort or
 - → 2x DVİ-D and 2x 3G-SDI

Software Support

supports Linux and Windows

Electrical Specification

- 50 W (typical max)
- Vss = +5 V or +12 V
- surge currents may cause power consumption to go past 50 W temporarily

Environmental Specification

- conduction-cooled
- operating temperature at card edge:
 - → MIL-STD-810, -40 C to +85 C
- non-operating temperature:
 - → MIL-STD-810, -55 C to +105 C
- 5% to 95% Relative Humidity, non-condensing

Mechanical Specification

- 3U VPX form-factor
- slot width:
 - → 0.8-inch pitch
- connectors to VITA 46.0 for P0, P1 and P2
- captive screws available to secure front handles
- operating mechanical:
 - → shock MIL-STD-810, 40g
 - → random vibration MIL-STD-810, 0.1g /H