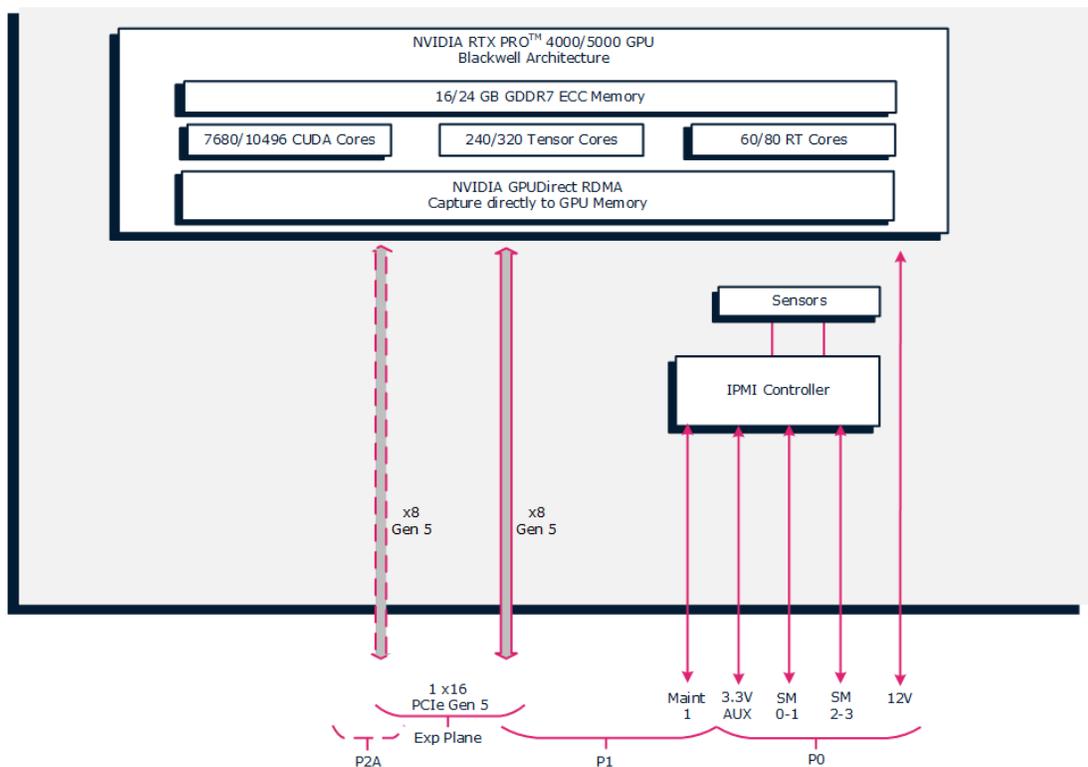


## SOSA<sup>®</sup> Aligned 3U VPX GPGPU Card

### Key Features

Bragi is a rugged 3U OpenVPX GPGPU processing card powered by the NVIDIA RTX PRO™ 4000/5000 Blackwell GPU

- Supports 16/24 GB of GDDR7 graphics memory equipped with error correction code (ECC)
- 7,680/10,496 CUDA<sup>®</sup> cores, 240/320 Tensor Cores and 60/80 RT Cores
- H.265 (HEVC) / H.264 (MPEG4/AVC), AV1 Hardware Codec
- NVIDIA GPUDirect Remote Direct Memory Access (RDMA)
- including 9th Gen NVENC encoders with 4:2:2 support and 6th Gen NVDEC decoders



## VPX High-Performance GPGPU Card

- Rugged 3U OpenVPX GPGPU processing card powered by the NVIDIA RTX PRO™ 4000/5000 GPU
- Compliant with these slot profiles:
  - SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11-0
  - SLT3-PAY-1F1U1S1S1U1U4F1J-14.6.13-0

## Central Processor

- NVIDIA RTX PRO™ 4000 GPU (Blackwell Generation)
- DirectX12, OpenGL 4.6, Vulkan 1.3
- GPGPU Capabilities:
  - 7,680 CUDA Cores. 240 Tensor Cores. 60 RT Cores.
  - Up to 1,334 FP4 AI TOPS Performance
  - 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
- NVIDIA RTX PRO™ 5000 GPU (Blackwell Generation)
- DirectX12, OpenGL 4.6, Vulkan 1.3
- GPGPU Capabilities:
  - 10,496 CUDA Cores. 320 Tensor Cores. 80 RT Cores.
  - Up to 1,824 FP4 AI TOPS Performance
  - 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

## DRAM

- Option for NVIDIA RTX PRO™ 4000 GPU:
  - 16 GB GDDR7 with Error Correction Code
    - 256-bit Memory Interface
- Option for NVIDIA RTX PRO™ 5000 GPU:
  - 24 GB GDDR7 with Error Correction Code
    - 256-bit Memory Interface

## Software Support

- Windows or Linux on x86

## Environmental Specification

- CC4 (-40C to 85C) at Card Edge
- CCW4 (-40C to 71C) at Cold Wall
- AFT2 (-40C to 55C)
- Humidity:
  - 95% Without Condensation

## Mechanical Specification

- 3U VPX Form Factor
- 1" Pitch Conduction Cooled (VITA 48.2)
- 1.2" & 1.5" Pitch AFT (Vita 48.8)
- Operating mechanical:
  - Shock - 40 g
  - Random vibration - 0.1 g<sup>2</sup>/Hz

## Electrical Specification

- Typical current figure:
  - 12 V Vss
  - 3.3 V AUX
  - 90W-150W