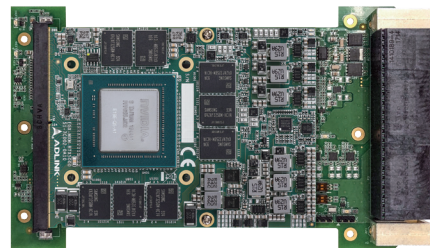


Rugged SOSA-aligned 3U VPX NVIDIA GPGPU Blade
VPX3-RTX5000-STD

Datasheet

Preliminary



Features

- NVIDIA Turing architecture TU104 GPU with up to 3072 CUDA cores
- Up to 16GB GDDR6 Memory with NVIDIA GPUDirect™ DMA technology
- PCIe x16 Gen3 to P1
- Four DisplayPort 1.4 outputs

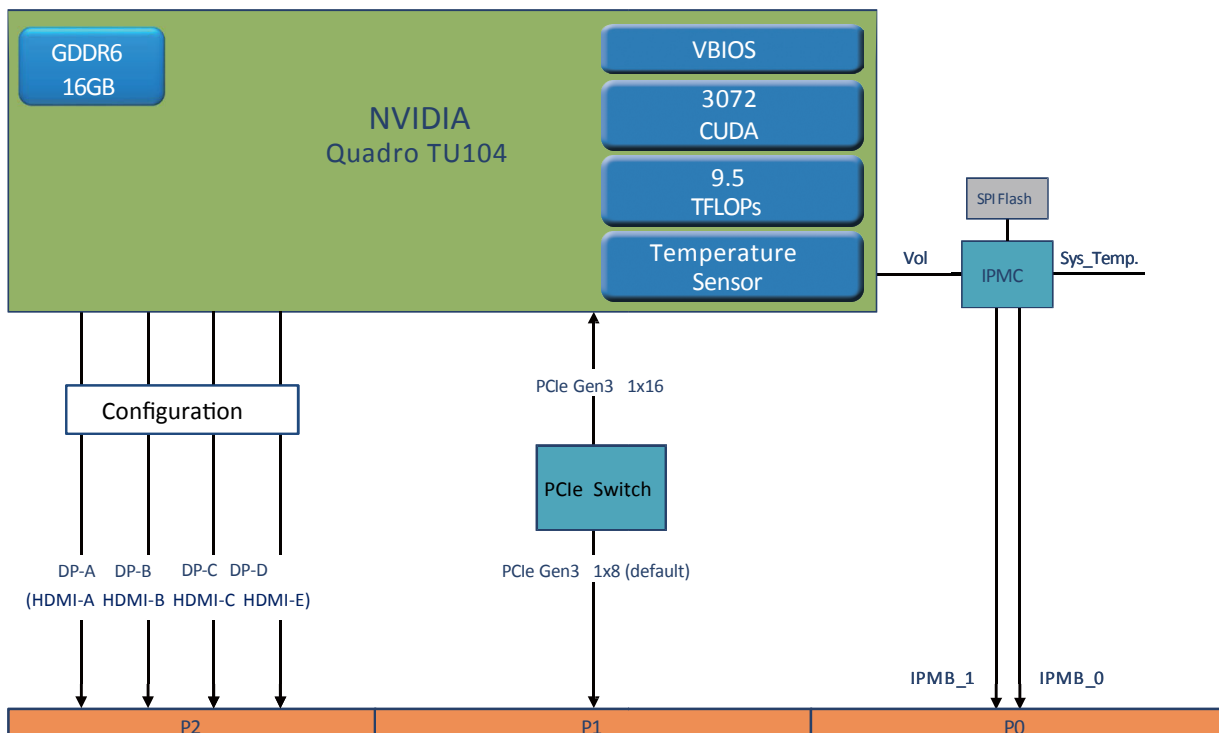
Specifications

GPU	NVIDIA Turing RTX5000, 9.4 TFLOPs	
	CUDA	VPX3-RTX5000, 3072 CUDA cores
	Memory	VPX3-RTX5000: 16GB GDDR6; 256-bit width
	BIOS	NVIDIA VBIOS
	Graphics Support	Open GL 4.6 Open CL 1.2 DirectX® 12 H/W encode/decode H.265 (HEVC), H.264 (AVC)
	VITA Standards	VITA 46.0 VPX Base Standard VITA 46.4 PCI Express on VPX Fabric Connector VITA 48.0 Ruggedized Enhanced Design Implementation Mechanical Base Specification VITA 65 OpenVPX Architecture Framework for VPX
	OpenVPX Profiles	Module Profile: MOD3-PER-2F-16.3.1-3 Slot Profile: SLT3-PER-2F-14.3.1
Connectivity	Graphics	Four DisplayPort 1.4 or HDMI2.0 outputs to P2 PCI Express PCIe x16 Gen3 to P1

Specifications

OS Support	Windows 10 64-bit Linux and RTOS by request	
Miscellaneous	LED	Status LED
	Reset Button	Board reset button on front panel
Mechanical & Environmental	Form Factor	Conduction cooled 3U VPX
	Operating Temperature	-40°C to +70°C (VITA 47, ECC3)
	Storage Temp.	-50°C to +100°C
	Relative Humidity	95% non-condensing
	Vibration	0.1 g ² /Hz (VITA 47, V3)
	Shock	Sawtooth 40G, 11ms, each axis, operating
	EMI/EMC	CE, FCC Class A

VPX3-RTX5000-STD Block Diagram



Ordering Information

GPGPU Blades

VPX3-RTX5000-STD-R1, DP output, SOSA-aligned, ETT, CC	3U VPX GPU blade with MXM Module RTX5000, PCIe x16 Gen3, 4x DisplayPort, SOSA-aligned, conformal coating & ETT, -40 to +70°C, Conduction-cooled
VPX3-RTX5000-STD-R1, DP output, ETT, CC	3U VPX GPU blade with MXM Module RTX5000, PCIe x16 Gen3, 4x DisplayPort, conformal coating & ETT, -40 to +70°C, Conduction-cooled
VPX3-RTX5000-STD-R1, HDMI output, ETT, CC	3U VPX GPU blade with MXM Module RTX5000, PCIe x16 Gen3, 4x HDMI, conformal coating & ETT, -40 to +70°C, Conduction-cooled.

Accessories

VPX3-RMXM-5DP-STD	RTM for VPX3-RTX5000-STD-R1 DP output provides four DisplayPort outputs
VPX3-RMXM-5HDMI-STD	RTM for VPX3-RTX5000-STD-R1 HDMI output provides four HDMI outputs

