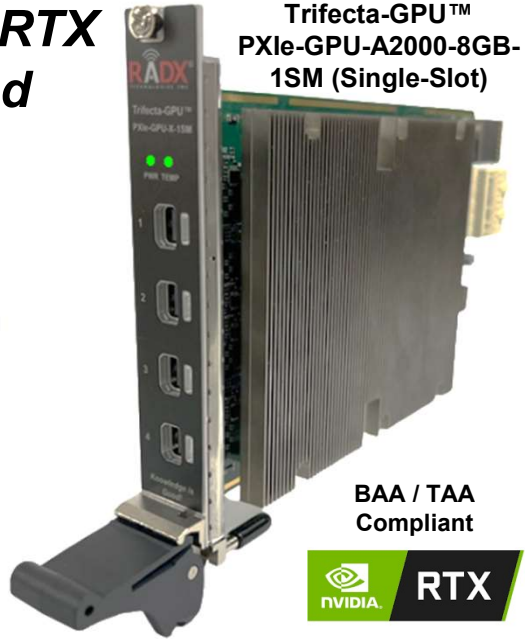
RADX® Trifecta-GPU™ COTS PXIe GPU Modules

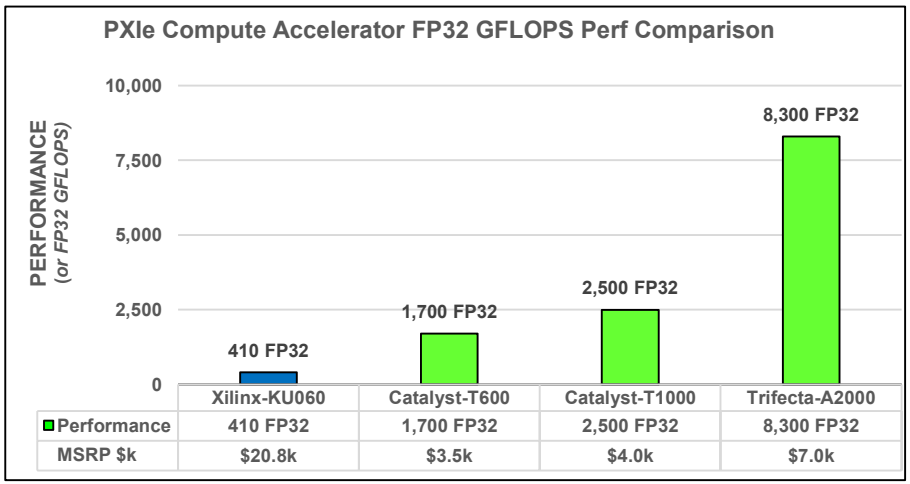
Bring the Power of Easy-to-Program, 8.3 FP32 TFLOPS NVIDIA® RTX A2000 GPUs to PXIe/CPCIe Systems - for Advanced Graphics and GPU-Accelerated Signal Processing, ML & DL Inference Apps

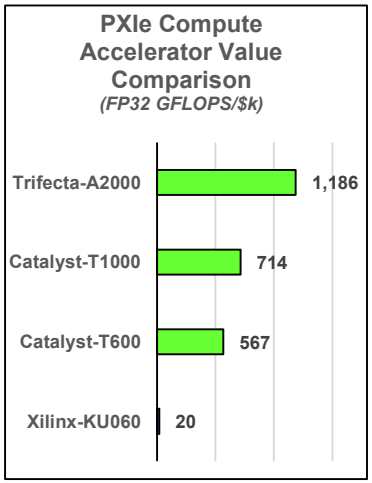


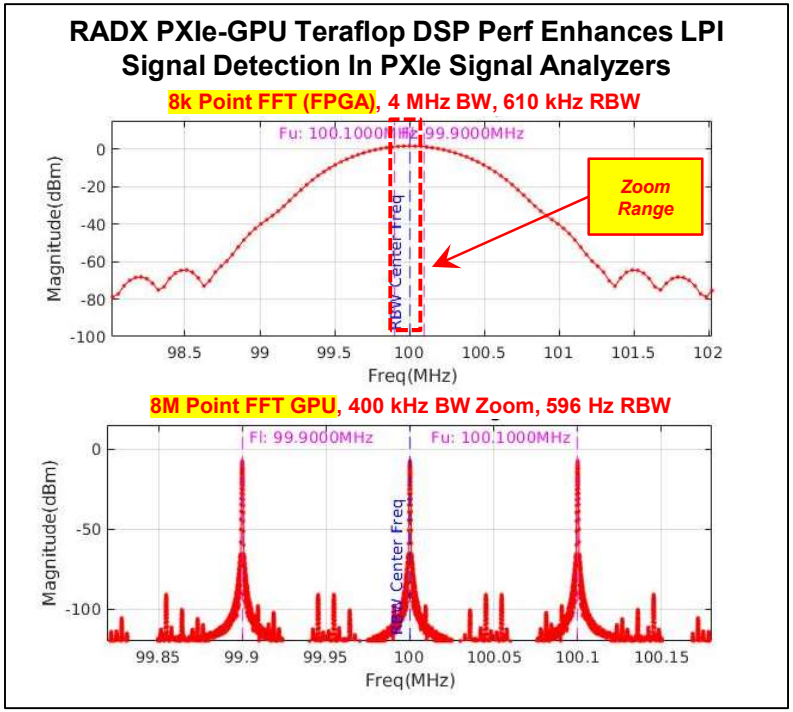
- Enables Tight LabVIEW Integration with MATLAB, Python and C/C++ for NVIDIA CUDA-Accelerated or OpenCL® Signal Processing, Machine and Deep Learning Applications in PXIe Systems – with Support for Popular Frameworks

LabVIEW · python · MathWorks · RAPIDS AI & cuSignal · PyTorch · TensorFlow · NVIDIA CUDA · OpenCL

- Single and Dual Slot Models with NVIDIA RTX A2000 GPUs for Flexible and Scalable PXIe/CPCIe Application Performance:
  - ***2D/3D Graphics Perf**: ~20x to ~100x Higher than Embedded Controller GPUs*
  - ***Signal Processing Perf**: 8.3 FP32 TFLOPS for ~20x Higher Compute Performance than Xilinx KU060 FPGAs (410 FP32 GFOPS)*
  - ***ML/DL Inference Performance**: ~20x to ~200x Higher than Embedded Controller CPUs via MATLAB, TensorFlow or PyTorch*







RADX TECHNOLOGIES, INC.

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For More Info, Email info@radxtech.com or Call +1 (619) 677-1849 x 1

Will be Available on GSA From: gsamart testmart

RADX® Trifecta-GPU COTS PXIe GPU Module Specifications

(Subject to Change Without Notice)

#	Parameter	PXIe-GPU-A2000-8GB-1SM (Single-Slot, 4HP)	PXIe-GPU-A2000-8GB-2SM (Dual-Slot, 8HP)
1	**NVIDIA Ampere GPU:**	RTX-A2000 MXM 3.1 Type A	
2	**FP32 Peak Performance**	8.3 FP32 TFLOPS *(22.7x PXIe-7915 @ 410 GFLOPS)*	
3	**CUDA & Other Cores:**	2,560 CUDA / 20 RT / 80 TENSOR	
4	**On-Board Memory:**	8 GB GDDR6 with 192-bit I/F *(2x PXIe-7915 @ 4 GB DDR3)*	
5	**On-Board Memory BW:**	192 GB/Sec *(11.3x PXIe-7915 @ 17 GB/Sec)*	
6	**Total Graphics Power (Watts):**	~58W / Slot *(~58W Total)*	~29W / Slot *(~58W Total)*
7	**Supported PXIe Chassis:**	All 38W / Slot NI & 3rd Party PXIe Chassis	NI PXIe 58W / Slot Chassis *(e.g., PXIe-1092, -1095, -1084, etc.)*
8	**Display I/F & Resolution:**	4 x Mini Display Port 1.4a I/Fs (HDMI 2.1) with 4k+ Resolution @ 120Hz or 8K Resolution at 60Hz with 10-bit Color	
9	**Thermal Solution:**	Passive Aluminum Heat Sink (1- or 2-Slot) / ~15 LFM Air Flow	
10	**GPU / Module PCIe I/F:**	GPU: PCIe Gen 4 x16 / Module: PCIe Gen 4 x8 *(Backplane Limit for Most Chassis is PCIe G3 x8 or x4)*	
11	**Module Form Factor:**	Single (4HP), 3U PXIe Peripheral / 3U CPCIe Type 2 Slot with XJ3 and XJ4 Connectors	Dual (8HP), 3U PXIe Peripheral / 3U CPCIe Type 2 Slot with XJ3 and XJ4 Connectors
12	**Module Dimensions:**	~0.4 kg (0.8 lb) / 100 mm H x 160 mm D x 20.32 mm W (4HP) *(3.94 in H x 6.3 in D x 0.8 in W [4HP])*	0.5 kg (1.1 lb) / 100 mm H x 160 mm D x 40.64 mm W (8HP) *(3.94 in H x 6.3 in D x 1.6 in W [8HP])*
13	**Op & Storage Temps:**	Op Temp: 0° to 55° C, 10% to 90%, Non-Condensing, Storage Temp: -40° to +85° C	
14	**Designed to Meet Specs & Certs:**	GPU MXM Certified for FCC Part 15-B Class A, CE and RoHS. Module is Designed to Meet FCC Part 15-B Class A / CE / RoHS / EN55022 Class A / ENS55024 / EN300386-2 / MIL-PRF-28800F Class 3 *(Class 2 Optional).* *Module Level Certs May be Available – Ask RADX for a Quotation.*	
15	**Operating System Support:**	Windows 10, Windows 11 and Linux (64-bit, Distributions TBD)	
16	**Graphics APIs:**	DirectX 12, Shader Model 5.1, OpenGL 4.6, Vulkan 1.2 (or Later)	
17	**Compute APIs:**	CUDA Toolkit 8.0+, CUDA Compute V8+, OpenCL™ 1.2+ & CUDA-X AI	
18	**RDMA & Peer-to-Peer Support:**	NVIDIA GPUDirect Support for Trifecta-GPUs, Trifecta, Catalyst and 3rd Party PXIe Modules Availability TBD	
19	**Framework Support:**	NI LabVIEW via Python, C/C++ or MATLAB; MathWorks MATLAB, Simulink, ML, DL and Parallel Toolboxes; RAPIDS cuSignal; RAPIDS AI and Others	
20	**Programming Support:**	RADX Transform-X Examples for MATLAB, Python and C/C++	
21	**Standard Warranty:**	1 Year Return to Factory Standard *(Extended Warranty and Technology Insertion Options Available)*	
22	**Export Control Related Info:**	ECCN: EAR99 / HSC: 84733092	
23	**COO / TAA / BAA:**	TW / TAA & BAA Compliant	
24	**Anticipated QTY 1 MSRP & GA**	$6,999 / Q422	$7,999 / Q422
26	**Value: GFLOPS / $k MSRP**	1,186 GFLOPS/$k *(~59x PXIe-7915 @ 20 GFLOPS / $k)*	1,038 GFLOPS/$k *(~52x PXIe-7915 @ 20 GFLOPS / $k)*

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