



PXle (In-Chassis) GPUs

Easy-to-Program, High-Performance, Cost-Effective, COTS NVIDIA® GPUs for PXle Systems

Ideal for Compute-Intensive CV, EW and T&M Applications that Can Benefit from Software-Defined, GPU-Accelerated Signal, Image & Video Processing and Machine Learning / Deep Learning (ML/DL) Inference Processing

Eliminates the Need for
External GPU Servers

Catalyst-GPU™

www.radxtech.com/catalyst-gpu

Patent Pending

Trifecta-GPU™

www.radxtech.com/trifecta-gpu



- Supports **NVIDIA CUDA & OpenCL** GPU-Accelerated Image, Video, & Signal Processing and ML/DL Inference Apps Under MS Windows & Linux with **1.7 to ~13 FP32 TFLOP Performance**
- **Up to 200x Faster than CPUs** on CV, IP, DSP & ML/DL Inf Apps
- **Easy-to-Program via MATLAB, LabVIEW, Python and C/C++** with optimized support for popular Analysis, Signal, Image and Video Processing and AI ML/DL Libraries & Frameworks including RTX Chat:



FAMILY	RADX PXle-GPU MODEL (P/N)	NVIDIA GPU	FP32 TFLOPS	C/R/T CORES	NVENC / NVDEC	GDDR6	PXle SLOTS	WATTS / SLOT	ECCN	Q324 MSRP
Catalyst-GPU	PXle-GPU-T600-4GB-1SP	Quadro T600-4GB	1.7	640 / 0 / 0	1 / 1	4GB / 160 GB/Sec	1	38W	4A994.L	\$3,499
	PXle-GPU-T1000-8GB-1SP	Quadro T1000-8GB	2.5	896 / 0 / 0	1 / 1	8GB / 160 GB/Sec	1	50W	4A994.L	\$3,999
Trifecta-GPU	PXle-GPU-A2000-8GB-1SM	RTX-A2000-8GB MXM 3.1 Type A	8.3	2,560 / 20 / 80	1 / 2	8GB / 192 GB/Sec	1	58W	3A991.P	\$6,999
	PXle-GPU-A2000-8GB-2SM					8GB / 115 GB/Sec	2	29W	3A991.P	\$7,999
	PXle-GPU-A2000-8GB-1SM-RP						1	35W	3A991.P	\$6,999
	PXle-GPU-AdaRTX2000-8GB-1SM	RTX-2000-8GB MXM 3.1 Type A	12.99	3,072 / 24 / 96	1 / 1	8GB / 256 GB/sec	1	58W	3A991.P	\$8,999

PXle Compute Accelerator Value Comparison (FP32 TFLOPS / \$k MSRP Q224)				
Need a Bigger Boat? Ask about NEW RADX Catalyst Ada RTX 4000 SFF and Ada L4 Data Center PXle GPUs and Catalyst-C2X™ PXle eGPUs with Ada RTX 6000 PCIe GPUs				
			1.19	1.44
		0.63		
0.02				
NI PXle-7915 KU060 4GB FPGA	PXle-GPU-T1000 8GB	PXle-GPU-A2000 8GB	PXle-GPU-Ada RTX2000 8GB	
FP32 TFLOPS	0.41	2.5	8.3	12.99
Q224 MSRP \$k	\$22.8k	\$4.0k	\$7.0k	\$9.0k
VALUE (FP32 TFLOPS / MSRP \$k)	0.02	0.63	1.19	1.44

- Supports **1k to 8M Sample FFTs** and other kernels, well beyond FPGA 64k FFT Sample Limits, for Unmatched RBW and Industry-Best LPI Signal Detection & Classification
- Supports **NVIDIA NVENC/NVDEC** Dedicated Video Encode / Decode Hardware for real-time 2k, 4k and 8k Video Compression / Decompression on multiple video streams
- **Rapid Delivery: ~30 Day Typical Leadtime**



Cost-Effective, COTS
Subsystems for High-
Performance Modular T&M
Applications: EW, CV,
SDR, ML/DL, Mfg. Q/A, AD/
ADAS, Semi & BioTech

PXle Data Storage: Trifecta-SSD™ RAID & RM



PXle (GbE) Ethernet NICs: Catalyst-GbE™



PXle GPUs: Catalyst-GPUs™ & Trifecta-GPUs™



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RADX[®] PXIe Data Storage

Trifecta-SSD™-RAID

www.radxtech.com/trifecta-ssd-raid

COTS, Cost-Effective, Extreme-Performance, Single-Slot, PXIe/ NVMe M.2 SSD RAID Data Storage Modules



BAA / TAA Compliant

Eliminates the Need for External RAID Storage



Ask about the **NEW** Trifecta-SSD-U.2 Extreme Endurance PXIe and Catalyst-SSD-USB Hot-Swappable PXIe and PCIe Data Storage Subsystems

- For Ultra-Wideband, PXIe RF & IF, DSO, Digitizer & Video Capture, Record, Playback and Analysis Systems
- Industry Leading Single-Slot SSD RAID Capacity: **8, 16, 24, 32 or 64 TB per Slot**
- Industry Leading Performance: **6 or 8 x M.2 NVMe SSDs** and PCIe Gen 3 x8 for up to **7.1 GB/Sec Sustained**, Sequential R/W with **NO Write Hiccups**
- > 12+ GB/Sec Sus. Seq. R/W with 2 Modules in SW RAID-0
- **Available in Non-Hybrid Format (-P Option, \$1k Fee)**
- Industry Leading Price / Performance (TB/\$k)
- Rapid Delivery: ~30 Day Typical Leadtime

Trifecta-SSD-RAID MODEL (P/N)	UNF CAP	ENDURANCE (PBW)	Q424 MSRP
PXIe-SSD-4M.2F-8TB-SS2	8 TB	4.8 PBW	\$6,999
PXIe-SSD-8M.2F-16TB-SS2	16 TB	9.6 PW	\$9,999
PXIe-SSD-6M.2F-24TB-SB2	24 TB	18.0 PBW	\$14,999
PXIe-SSD-8M.2F-32TB-SB2	32 TB	24.0 PBW	\$17,999
PXIe-SSD-8M.2F-32TB-HE2	32 TB	40.8 PBW	\$19,999
PXIe-SSD-8M.2F-64TB-SB2	64 TB	44.8 PBW	\$29,999

Trifecta-SSD™-RM

www.radxtech.com/trifecta-ssd-rm

COTS, Low-Cost, High-Performance, Single-Slot, PXIe Data Storage Modules with Removable SSD Data Cartridges

Removable SSD Disk Cartridges



Low-Cost System Upgrade!



BAA / TAA Compliant

- Ideal for Applications Requiring Rapid Security Level Changes, Backups, and/or Test Environment Changes
- **Easy to Remove, Replace & Upgrade NVMe M.2 SSD Data Cartridges with 1, 2, 4 or 8 TB Capacity**
- **1, 2, 4 or 8 TB / Slot: 2x to 16x the Capacity of Typical 500GB Embedded Controller SSDs**
- PCIe Gen 3 x4 I/F with up to **3.5 / 3.5 GB/Sec Sequential Read /Write Perf** and **1.0 to 3.25 GB/Sec Sus. Seq. Write Performance: ~7x Faster than Embedded Controller SSDs**
- > 6+ GB/Sec Seq. R/W Perf with 2 Modules in SW RAID-0
- Rapid Delivery: ~30 Day Typical Leadtime

Trifecta-SSD-RM MODEL (P/N)	INCL. SSD DATA CARTRIDGE		Q424 MSRP	ADD'L DC Q424 MSRP
	UNF CAP	PBW		
PXIe-SSD-1M.2R-1TB-SS2	1 TB	0.6 PBW	\$2,499	\$749
PXIe-SSD-1M.2R-2TB-SS2	2 TB	1.2 PBW	\$2,999	\$999
PXIe-SSD-1M.2R-4TB-SB2	4 TB	3.0 PBW	\$3,499	\$1,999
PXIe-SSD-1M.2R-8TB-SB2	8 TB	5.6 PBW	\$4,999	\$3,499

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RADX[®] PXIe GbE

Catalyst-GbE™

www.radxtech.com/catalyst-gbe

COTS, Cost-Effective, Single-Slot, High-Performance PXIe 10, 25 & 100GbE NICs



BAA / TAA Compliant



Industry's First 100GbE PXIe NICs

- Based on RADX Patent-Pending Catalyst-X™ Carrier Card Design with PCIe Gen4 x8 Support
- Featuring **NVIDIA® Mellanox® CX6** and **Intel® XL710-BM1 PCIe NICs**— all with Industry Leading Performance and Data Center Level Product Features
- Support for **RDMA (iWARP, RoCEv2, GPUDirect [NVIDIA Mellanox CX5 & CX6]) & IPsec Offload**
- **NVIDIA Mellanox CX6-based NICs Support IEEE-1588v2 Precision Time Protocol (PTP) and Synchronization**
- **Rapid Delivery: ~30 Day Typical Leadtime**

Ask about the *****NEW*** Catalyst PXIe-USB-4x20G-HA Host Adapter**

Catalyst-GbE MODEL (P/N)	PCIe NIC	TRANS-CEIVERS	W / SLOT	Q424 MSRP
PXIe-GbE-4x10GbE-XL710	Intel XL710-BM1	4 x SFP+	~10W	\$3,999
PXIe-GbE-2x25/10GbE-CX6	NVIDIA Mellanox MCX631102AN-ADAT	2 x SFP28	~13W	\$2,999
PXIe-GbE-2x100GbE-CX6	NVIDIA Mellanox MCX623106AN-CDAT	2 x QSFP28 / QSFP56	~27W	\$5,999

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