RADX® Trifecta PXIe-SSD™-RAID Data Storage Modules

Industry Leading PXIe Performance, Capacity and Value: COTS, Single-Slot, M.2 SSD PXIe-RAID™ Modules with 8 to 64 TB / Slot, up to ~7.1 GB/Sec Sustained, Sequential Read / Write Performance, up to 80 PBW Endurance and Cost-Effective Pricing for Unprecedented Value

- For Wideband Spectrum and Video Recording, Playback, Analysis and other Data Intensive PXIe Apps
- **8, 16, 24, 32 & 64 TB per Slot Models Available** *(Special Configurations Available Upon Request)*
- **NEW! — Non-Hybrid (Peripheral Slot) Versions with J1 PXI Connector Removed ("-NH" Option)**
- **PCIe Gen 3 x8 I/F with Industry-Best Sustained, Sequential Read/Write Perf - up to ~7.1 GB/Sec**
- Unique 6 & 8 x SSD Configurations Eliminate "Hiccups" caused by Write Cache Saturation in 4 x SSD Modules
- **NEW! — "-NE2" Models with 30, 40 & 80 PBW Write Endurance – 67% to 79% Higher than Std. Models**
- **Cost Effective: ~2x to ~6x Better TB/$k Value vs. Competitive Products: 16TB ~$10k MSRP**
- Based on PCIe Gen 4 x4, COTS, M.2 NVMe 2280 SSDs from Samsung, Sabrent & Nextorage
- OS Support: MS Windows 10, 11 (and 7) 64-bit and Popular Linux 64-bit Distributions with available RADX Configurator for Ubuntu and Zorin
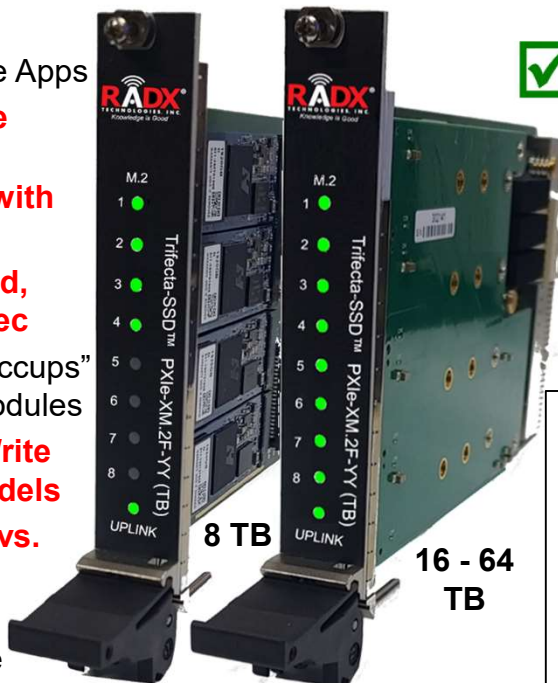- Support for JBOF and Software RAID 0, 1, 5 and 10 Configurations
- 1 Year RTF Warranty Standard Excluding Write Performance when PBW Specifications are Exceeded
- Long Life Cycle Support, Extended Warranty and Factory Tech Insertion / SSD Replacement Options with Current or Next Gen SSDs Available
- Designed to Meet Key Reg / Environmental Requirements: FCC Class A, CE, RoHS, EN55022-A, ENS55024, EN300386-2 & MIL-PRF-28800F-Class 3
- **Designed & Assembled in the USA; BAA / TAA Compliant; ECCN: 5A992.c**
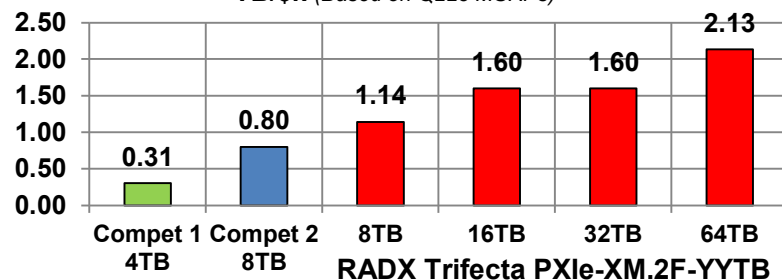- **Available on GSA from TestMart: See https://tinyurl.com/muk72crx**

BAA / TAA Compliant

Designed and Assembled in the USA

8 TB

16 - 64 TB

Standard Models with 8, 16, 24, 32 or 64 TB / Slot

COTS Single-Slot, PXIe SSD RAID Module Available Capacities

	Comp #1	Comp #2	RADX Trifecta-SSD
4TB	X	X	X
8TB	N/A	X	X
16TB	N/A	X	X
24TB	N/A	N/A	X
32TB	N/A	N/A	X
64TB	N/A	N/A	X

COTS Single Slot PXIe SSD RAID Module Value TB/$k *(Based on Q223 MSRPs)*

Compet 1 4TB: 0.31
Compet 2 8TB: 0.80
8TB: 1.14
16TB: 1.60
32TB: 1.60
64TB: 2.13
RADX Trifecta PXIe-XM.2F-YYTB

COTS PXIe SSD RAID Module Benchmarked Sustained, Sequential Write Performance

(Benchmarked by RADX on 24SEP2024, NI PXIe-1092, NI PXIe-8881 with 48 GB DDR4, Windows 10 64-bit Pro, CDM V8.0.1, 8GB File, 2MB Block Size, Queue Depth =8, 2 Threads)
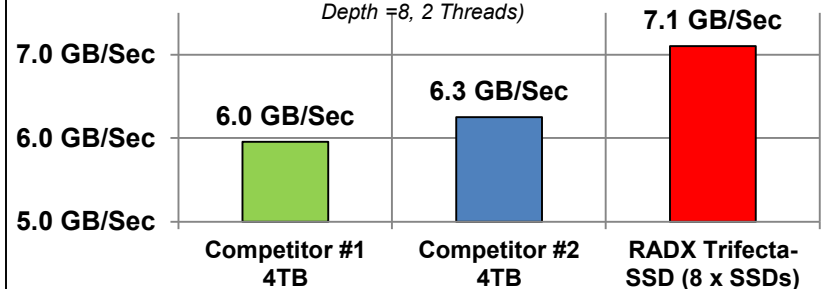
Competitor #1 4TB: 6.0 GB/Sec
Competitor #2 4TB: 6.3 GB/Sec
RADX Trifecta-SSD (8 x SSDs): 7.1 GB/Sec

Email **info@radxtech.com**, Visit **www.radxtech.com**
or Call **+1 (619) 677-1849 x1**

ni Partner — APPLICATION SOLUTION & PRODUCT

Available on GSA via **gsamart** *by etestmart*
https://tinyurl.com/muk72crx

RADX® Trifecta PXIe-SSD-RAID COTS M.2 NVMe RAID PXIe Module Specs
(As of 24APR2025 - Subject to Change without Notice)

		PXIe-SSD-4M.2F-8TB-SB2	PXIe-SSD-8M.2F-16TB-SB2	PXIe-SSD-6M.2F-24TB-SB2 / -NE2	PXIe-SSD-8M.2F-32TB-SB2 / -NE2	PXIe-SSD-8M.2F-64TB-SB2 / -NE2
1	Trifecta PXIE-SSD-RAID Model / Part Number (P/N Ordering Info):					
		Add "-NH" to P/N for Non-Hybrid (Peripheral Slot) Version				
2	**H125 QTY 1 MSRP** Excluding US import tariffs on SSDs: *(FOB SJC; SI, VAR, & EDU Discounts Available)*	-SB2: $6,999	-SB2: $9,999	-SB2: $14,999 -NE2: $17,999	-SB2: $17,999 -NE2: $21,999	-SB2: $29,999 -NE2: $31,999
	H125 "-NH" Non-Hybrid (Peripheral Slot) Version QTY 1 MSRP *(FOB SJC)*	-SB2-NH: $7,999	-SB2-NH: $10,999	-SB2-NH: $15,999 -NE2-NH: $18,999	-SB2-NH: $18,999 -NE2-NH: $22,999	-SB2-NH: $30,999 -NE2-NH: $32,999
3	Typical Lead Time:	~30 Days ARO for Small Orders / ~45 Days ARO for "–NH" Versions / 8 – 16 Weeks ARO for Volume Orders				
4	**Unformatted Capacity & No. of M.2 SSDs Employed:** *(Other Capacities Available)*	8 TB (UF) *(4 x 2TB M.2)*	16 TB (UF) *(8 x 2TB M.2)*	24 TB (UF) *(6 x 4TB M.2)*	32 TB (UF) *(8 x 4TB M.2)*	64 TB (UF) *(8 x 8TB M.2)*
5	M.2 2280 NVMe SSDs Employed: *(See URLs for M.2 NVMe SSD Manufacturer Specs & Features incl. OPAL & Sanitization)*	**-SB2: Sabrent SB-RKT4P-2TB** https://tinyurl.com/3nunve5t		**-SB2: Sabrent SB-RKT4P-XTB (X = 4 or 8 TB, PCIe G4)** https://tinyurl.com/3nunve5t **-NE2: Nextorage NE1NXTB (X = 4 or 8 TB, PCIe G4)** https://tinyurl.com/4jpvtynn		
6	**Sustained, Sequential Read / Write (R/W) RAID-0 Benchmark / PVT Performance:**	Up to 7.0 / 6.5 GB/Sec	Up to 7.1 / 7.0 GB/Sec (Read / Write)			
			(Benchmarked by RADX 14SEP2024: NI PXIe-1092, NI PXIe-8881, 64GB, PCIe Gen 3 x8, Windows 10 64-bit, CrystalDiskMark V8.0.1, 8GB File, 1 to 8MB Block Size, Queue Depth 8, 2 Threads)			
7	**Module Total Bytes Written / Write Endurance (Petabytes Written or PBW):**	5.6 PBW	11.2 PBW	-SB2: 18.0 PBW -NE2: 30.0 PBW	-SB2: 24.0 PBW -NE2: 40.0 PBW	-SB2: 44.8 PBW -NE2: 80.0 PBW
8	Module Form Factor:	Single-Slot, 3U PXIe Hybrid / 3U CPCIe Type 2 *(Non-Hybrid Peripheral PXIe Version Available with "-H" Option)*				
9	Product Dimensions (Excluding Packaging):	0.4 kg (0.8 lbs) / 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])*				
10	Module PCIe Express Switch:	PLX 8748 48-Lane PCIe 3.0 Switch				
11	Backplane Interface:	PCIe Gen 3 x8 (~8 GB/Sec Max)				
12	RAID Configurations Supported:	JBOF and Software RAID-0, 1, 5 and 10 *(Note: Multiple Trifecta-SSD PXIe Modules May Also Be Combined Using Software RAID-0, 1, 5 and 10)*				
13	Operating System Support:	Microsoft Windows 10, 11 64-bit and Windows 7 64-bit and Popular Linux Distributions; Also RT-Linux.				
14	Front Panel Uplink & M.2 Status LEDs:	1 x Uplink; 4, 6 or 8 x M.2 Status *(Indicates Uplink and M.2 PCIe Link Gen 1, 2 or 3 Status)*				
15	Backplane Connectors:	XJ3, XJ4 and J1 (Hybrid Slot) Std. or XJ3 & XJ4 (No J1, Peripheral Slot) with "-NH" Option (Additional Fee)				
16	Operating Power Consumption:	< 33 W Typical	< 58 W Typical *(NI PXIe-1095/1092 or Similar 58/82W per Slot Chassis Recommended)*			
17	Required Cooling Air Flow:	~15 LFM				
18	Operating Temp and Relative Humidity:	0° to 55° C, 10% to 90%, Non-Condensing				
19	Non-Operating Temperature:	-40° to +85° C				
20	Regulatory & Environmental Compliance (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)				
21	Standard Warranty:	1 Year Return to Factory Standard (Excluding Write Endurance Beyond PBW Spec) *(Extended Warranty Available)*				
22	Country of Origin:	COO: US / Designed and Assembled in the USA				
23	Export Compliance:	ECCN: 5A992.c / US HSC: 8523.51.0000 / EU TARIC: 8523.51.0000				
24	BAA/TAA Compliance & GSA Availability:	BAA/TAA Compliant. Available on GSA via TestMart at https://tinyurl.com/muk72crx				

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