

RADX® Venturi PXI-SSD™ Family of COTS Data Center PXIe-SSDs

COTS, Cost-Effective, 1-Slot, Low-Power, Patent-Pending, PXIe-SSDs with 15mm Data Center G4 / G5 U.2 / U.3 NVMe SSDs with up to 61.4 TB / Slot, ~7.1 GB/Sec SSRW Performance & 112 PBW Endurance

- Unique, Patent-Pending Design Delivers 4 or 8 x M.2 RAID Level Sustained Sequential Read / Write Performance and Capacities along with Superior Write Endurance and Random I/O Read Perf Using One (1) G4 / G5 Data Center U.2 / U.3 NVMe SSD
- **Form, Fit & Functional Replacement for PXIe M.2 RAID Modules:**
 - RADX Trifecta PXIe-SSD-XM.2F, NI PXIe-8267 and Conduant PXI-DM-4M.2
- For Wideband Spectrum, Video & Data Recording, Playback, Analysis, Image/Video Processing, Edge ML/DL and AI
- **0.8TB (EE), 3.84TB, 7.68TB, 15.36TB, 30.72TB, & 61.44TB (UF)**
 - 800GB Extreme Endurance SSD for Circular / Pre-Trigger Buffer Apps
 - 12.8TB, 25.6TB and Other Configurations Available Upon Request
- **Up to ~7.1 GB/Sec SSRW Performance in Gen 3 x8 PXIe Systems**
 - Industry-Best Sustained, Sequential Read/Write (SSRW) Performance
 - Based on RADX Patent-Pending Venturi Design with SSD I/O Acceleration

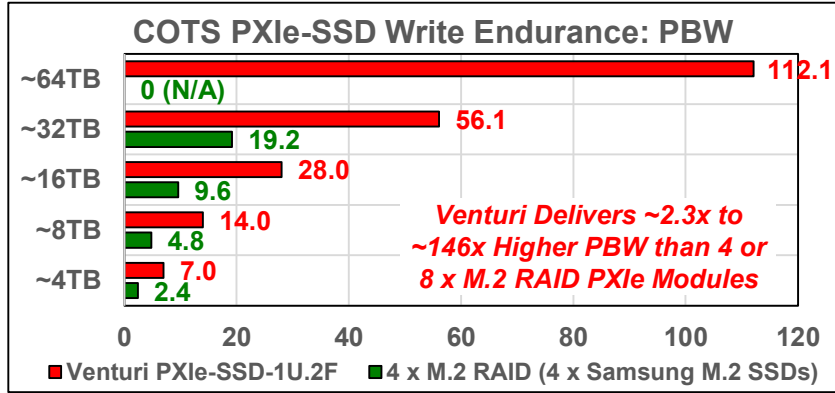
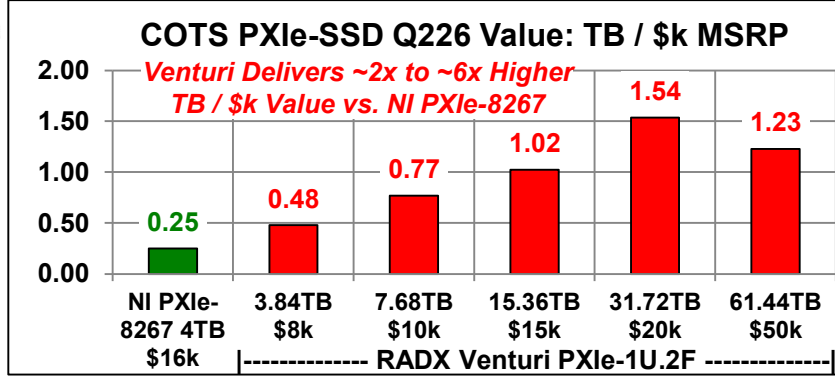
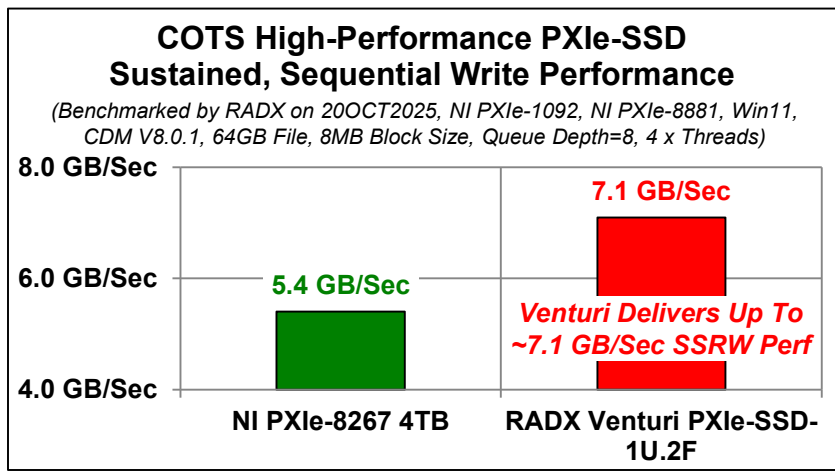


Patent Pending Design
Designed and Assembled in the USA

BAA / TAA Compliant



- **Unprecedented Write Endurance - up to 112.1 PBW**
 - ~2.3x to 146x Higher PBW than 4 x M.2 RAID Solutions
- **Industry-Best Value: ~2x to ~6x Better TB / \$k vs. M.2 RAID**
- Low Power: TDP ≤ 38W TDP - Works in Any PXIe Chassis
- OS Support: MS Windows 7, 10 & 11, RT Linux & Popular Linux 64-bit Distributions
- Support for JBOF and Software RAID 0, 1, 5 and 10 Configs via Multiple Modules
- **Industry-Best 3-Year RTF Warranty** (Excluding Write Performance Beyond PBW Specs)
- 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, EN55024, EN300386-2 & MIL-PRF-28800F-Class 3
- COO: USA (Designed & Assembled); BAA / TAA Compliant; ECCN: 5A992.c
- Rapid Delivery: ~30 to 45 Day Typical Leadtime for Non-EE Products
- Available via GSA from TestMart: See <https://tinyurl.com/muk72crx>



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

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<https://tinyurl.com/muk72crx>

RADX® Venturi Family of COTS Data Center PXle-SSDs™ Specifications

(As of 03MAY2026 - Subject to Change without Notice)

1	Venturi PXIE-SSD-1U.2F Part Number (P/N Ordering Info):	PXle-SSD-1U.2F-0.8TB-EE	PXle-SSD-1U.2F-3.84TB-XXX	PXle-SSD-1U.2F-7.6TB-XXX	PXle-SSD-1U.2F-15.36TB-XXX	PXle-SSD-1U.2F-30.72TB-XXX	PXle-SSD-1U.2F-61.44TB-MI5	
2	Unformatted Capacity:	0.8 TB (UF)	3.84 TB (UF)	7.68 TB (UF)	15.36 TB (UF)	30.72 TB (UF)	61.44 TB (UF)	
3	Q226 QTY 1 MSRP	\$12,999	\$7,999	\$9,999	\$14,999	\$19,999	\$49,999	
<i>FOB SJC; Subject to change without notice; excluding new US import tariffs enacted prior to shipment; SI, VAR, & EDU Discounts Available.</i>								
4	U.2/U.3 Data Center NVMe SSDs: (Subject to Change without Notice. See SSD Mfg. Website for Details)	Flexxon FCCB800GBC, Intel P5800X, Phison AI100E (G4 x4)	Micron Pro 9400 (G4 x4), Micron Pro 9550 (G5 x4), Phison X100P (G4 x4), Phison X200P (G4 x4), Sabrent SB-P4U2 (G4 x4)				Micron Ion 6550 (G5 x4)	
5	Sustained, Seq. Read / Write (R/W) Performance (GB/Sec):	~7.1 R / ≥ 5.6 W GB/Sec	~7.0 to ~7.2 R / ~6.9 to ~7.1 W GB/Sec				~7.2 R / ~7.0 W GB/Sec	
<i>Benchmarked by RADX October 2025: NI PXle-1092, NI PXle-8881, PCIe Gen 3 x8, Win11, CDM V8.0.1, 64GB File, 8MB Block, QD 8, 4 Threads.</i>								
6	SSD Write DWPD:	60 to 100 DWPD	1 DWPD					
7	SSD Write Endurance (UF-PBW):	≥ 87.6 PBW (UF)	7.01 PBW (UF)	14.02 PBW (UF)	28.0 PBW (UF)	56.1 PBW (UF)	112.1 PBW (UF)	
8	Capacity Value (UF-TB / \$k)	0.062	0.48	0.77	1.02	1.54	1.23	
9	Endurance Value (UF-PBW / \$k)	6.7	0.9	1.4	1.9	2.8	2.24	
10	Replaces NI and RADX Trifecta M.2 RAID Modules:	N/A	NI PXle-8267 4TB	RADX PXle-SSD-4M.2F-8TB	RADX PXle-SSD-8M.2F-16TB	RADX PXle-SSD-8M.2F-24/32TB	RADX PXle-SSD-8M.2F-64TB	
11	Typical (Production) Lead Time:	~45 to ~60 Days ARO	~30 to ~45 Days ARO for Small Orders / 8 – 16 Weeks ARO for Volume Orders					
12	Module Form Factor:	Single-Slot, 3U PXle Peripheral / 3U PCIe Type 2						
13	Module Dimensions:	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])						
14	Module PCIe Express Switch:	Microchip PM40028B1-F3EI PCIe Gen 4 x28 Lane Switch						
15	Backplane Interface:	PCIe Gen 4 x8 (~32 GB/Sec Max)						
16	RAID Configurations Supported:	Software RAID-0, 1, 5 and 10 with Multiple Venturi PXle-SSD-1U.2F Modules						
17	Operating System Support:	Microsoft Windows 10, 11 64-bit, Popular Linux Distributions and NI RT-Linux.						
18	Front Panel Status LED(s):	SSD / Kyber Crystal Activity Indicator						
19	Backplane Connectors:	XJ3 and XJ4						
20	Operating Power Consumption:	< 25 W Typical, ≤ 38 W TDP During Peak Usage						
21	Required Cooling Air Flow:	~152 LFM (38W TDP, 20°C ΔT at 23°C Ambient)						
22	Operating Temp & Rel. Humidity:	0° to 55° C, 10% to 90%, Non-Condensing (SSD)						
23	Non-Operating Temperature:	-40° to +85°C						
24	Regulatory & Environmental Compliance (Designed to Meet):	SSD Meets and Module is Designed to Meet FCC Part 15-B Class A / CE / RoHS / EN55022 Class A / EN555024 / EN300386-2 / MIL-PRF-28800F Class 3 (Class 2 Optional)						
25	Standard Warranty:	Three (3) Year RTF Warranty Standard (Excluding Write Endurance Beyond PBW Spec) – Ext'd Warranty Available						
26	Country of Origin:	COO: US / Designed and Assembled in the USA						
27	Export Compliance:	ECCN: 5A992.c / US HSC: 8523.51.0000 / EU TARIC: 8523.51.0000						
28	BAA/TAA Compliance & GSA:	BAA/TAA Compliant. Available on GSA and Other Federal Contracts via TestMart at https://tinyurl.com/muk72crx						



Email info@radxtech.com, Visit www.radxtech.com
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