RADX® Venturi PXI-SSD™ Family of COTS, High-Performance 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 Using One (1) G4 / G5 Data Center U.2 / U.3 NVMe SSD**
- **Form, Fit & Functional Replacement for PXIe M.2 RAID Modules:**
  - ***RADX PXIe-SSD-XM.2F, NI PXIe-8267 & 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 Configs Available Upon Request*
- **Up to ~7.1 GB/Sec SSRW Performance in Gen 3 x8 PXIe Systems**
  - *LabVIEW SSRW Perf up to ~6.9 GB/Sec with Async I/O and Zero Copy*
  - *Industry-Best Sustained, Sequential Read/Write (SSRW) Performance*
  - *Via RADX Patent-Pending Venturi SSD I/O Acceleration*
- **Unprecedented Write Endurance - up to 112.1 PBW**
  - ***~2.3x to 146x Higher PBW than 4 x M.2 RAID Solutions***
- **Industry-Best Value: ~1.5x to ~4x 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, ENS55024, EN300386-2 & MIL-PRF-28800F-Class 3**
- **COO: USA (Designed & Assembled); BAA / TAA Compliant; ECCN: EAR99 / NLR**
- **Rapid Delivery: ~30 to 45 Day Typical Leadtime for Non-EE Products**
- **Available directly from RADX and from Apex Waves (www.apexwaves.com)**
- **Available via GSA from TestMart (https://tinyurl.com/muk72crx)**



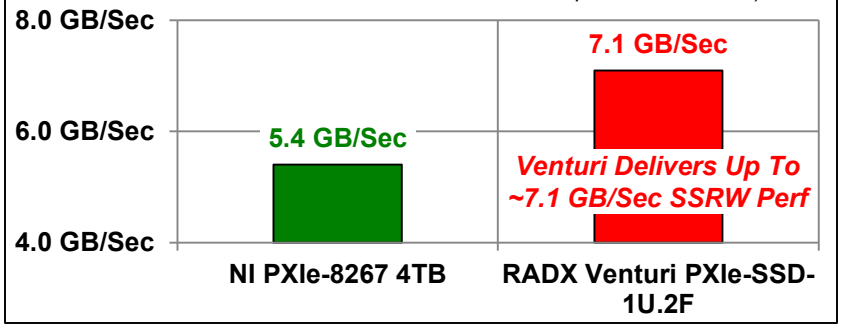
Patent Pending Design

Designed and Assembled in the USA

BAA / TAA Compliant

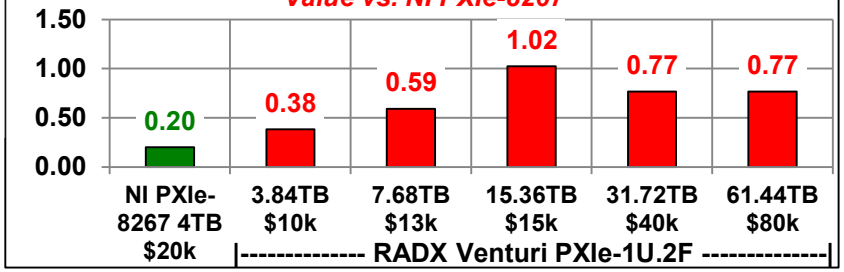
COTS High-Performance PXIe-SSD Sustained, Sequential Write Performance

(Benchmarked by RADX on 20OCT2025, NI PXIe-1092, NI PXIe-8881, Win11, CDM V8.0.1, 64GB File, 8MB Block Size, Queue Depth=8, 4 x Threads)

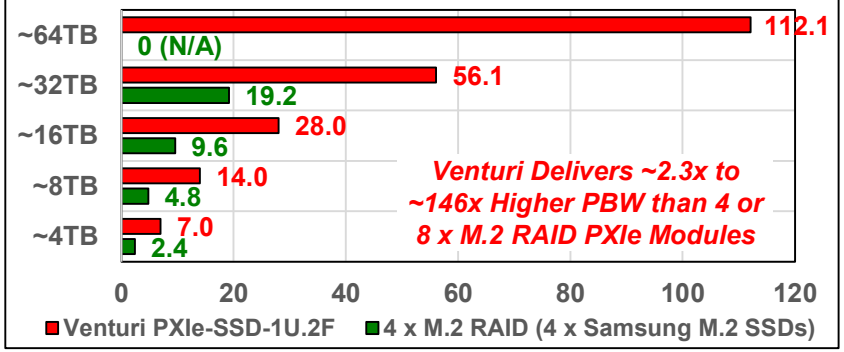


COTS PXIe-SSD Q426 Value: TB / $k MSRP

Venturi Delivers ~1.5x to ~4x Higher TB / $k Value vs. NI PXIe-8267



COTS PXIe-SSD Write Endurance: PBW



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www.apexwaves.com

RADX® Venturi COTS, High-Performance PXIe-SSD™ Specifications

(As of 26OCT2026 - Subject to Change without Notice)

1	Venturi PXIE-SSD-1U.2F Part Number (P/N Ordering Info):	**PXIe-SSD-1U.2F-0.8TB-EE**	**PXIe-SSD-1U.2F-3.84TB-XXX**	**PXIe-SSD-1U.2F-7.6TB-XXX**	**PXIe-SSD-1U.2F-15.36TB-XXX**	**PXIe-SSD-1U.2F-30.72TB-XXX**	**PXIe-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	Q426 QTY 1 MSRP	**$12,999**	**$9,999**	**$12,999**	**$14,999**	**$39,999**	**$79,999**
		FOB SJC; Subject to change without notice; excluding new US import tariffs enacted prior to shipment; SI, VAR, & EDU Discounts Available.					
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 (G5 x4), Sabrent SB-P4U2 (G4 x4), SanDisk SN861 (G5 x4)**				**Micron Ion 6550 (G5 x4)**
5	Sustained, Seq. Read / Write (R/W) Performance (GB/Sec):	**~7.1 R / ~6.1 W GB/Sec**	**~7.0 to ~7.1 Read / ~6.8 to ~7.1 Write GB/Sec**				**~7.2 R / ~7.0 W GB/Sec**
		Benchmarked by RADX October 2026: NI PXIe-1092, NI PXIe-8881, PCIe Gen 3 x8, Win11, CDM V9.0.1, 64GB File, 8MB Block, QD 8, 4 Threads.					
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**	**0.38**	**0.59**	**1.02**	**0.77**	**0.77**
9	Endurance Value (UF-PBW / $k)	**6.7**	**0.7**	**1.08**	**1.9**	**1.4**	**1.4**
10	**Replaces NI and RADX Trifecta M.2 RAID Modules:**	**N/A**	**NI PXIe-8267 4TB**	**RADX PXIe-SSD-4M.2F-8TB**	**RADX PXIe-SSD-8M.2F-16TB**	**RADX PXIe-SSD-8M.2F-24/32TB**	**RADX PXIe-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 PXIe Peripheral / 3U CPCIe 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 PXIe-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 / ENS55024 / 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: EAR99 NLR / 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					

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