

# RADX® Trifecta PXIe-SSD™-RAID 64TB Data Storage Modules

**Industry Leading PXIe Performance, Capacity and Value: COTS, Single-Slot, M.2 SSD PXIe-RAID™ Modules 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
- **64 TB per Slot Model Standard – See RADX Venturi PXIe-SSDs for Other Capacities (3.84, 7.68, 15.36, 30.72, 61.44TB and 800GB-EE)**
- **Non-Hybrid Connector (Peripheral Slot) Versions with J1 PXI Connector Removed (“-NHC” Option)**
- **PCIe Gen 3 x8 I/F with Industry-Best Sustained, Sequential Read/Write Perf - up to ~7.1 GB/Sec**
- Unique 8 x SSD Configurations Eliminate “Hiccups” caused by Write Cache Saturation in 4 x SSD Modules
- **Cost Effective: ~6x Better TB/\$k Value vs. NI PXIe-8267**
- Based on PCIe Gen 3/4/5 x4, COTS, M.2 NVMe 2280 SSDs from Samsung, Sabrent, Adata, SanDisk, Nextorage and Others
- OS Support: MS Windows 10, 11 (and 7) 64-bit & Popular 64-bit Linux
- 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
- 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>



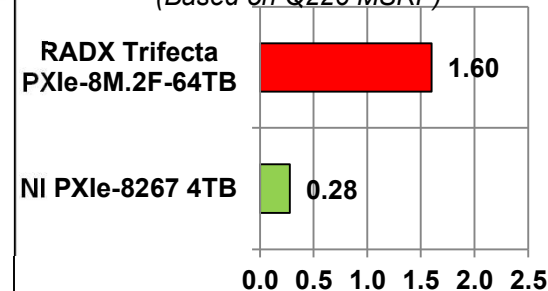
**Standard Models with 64TB / Slot**



Designed and Assembled in the USA

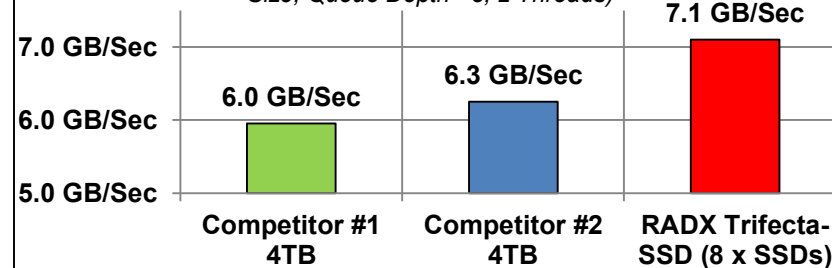


**COTS Single Slot PXIe SSD RAID Module Value TB/\$k**  
(Based on Q226 MSRP)



**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)



Email [info@radxtech.com](mailto:info@radxtech.com), Visit [www.radxtech.com](http://www.radxtech.com)  
or Call +1 (619) 677-1849 x1

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<https://tinyurl.com/muk72crx>

# RADX® Trifecta PXIe-SSD-RAID COTSM.2 NVMe RAID PXIe Module Specs

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

|    |  |  |                             |
|----|--|--|-----------------------------|
| 1  | Trifecta PXIe-SSD-RAID Model / Part Number (P/N Ordering Info):  | PXIe-SSD-8M.2F-64TB-XXX  | PXIe-SSD-8M.2F-64TB-XXX-NH  |
| 2  | Q226 QTY 1 MSRP: (FOB SJC; Excluding US import tariffs on SSDs; SI, VAR, & EDU Discounts Available)              | \$39,999   | \$40,999                    |
| 3  | Typical Lead Time:   | ~30 Days ARO   | ~45 Days ARO                |
| 4  | Unformatted Capacity & No. of M.2 SSDs Employed: (Other Capacities Available via RADX Venturi PXIe-SSDs)         | 64 TB (UF)<br>(8 x 8TB M.2)  | 64 TB (UF)<br>(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) | -SB4: 8 x Sabrent SB-RKT4P-8TB PCIe G4 x4 <a href="https://tinyurl.com/3nunve5t">https://tinyurl.com/3nunve5t</a><br>-SS5: 8 x Samsung 9100 Pro 8GB PCIe G5 x4 <a href="https://tinyurl.com/yc6yydyj">https://tinyurl.com/yc6yydyj</a> |                             |
| 6  | Sustained, Sequential Read / Write (R/W) RAID-0 Benchmark / PVT Performance:                                     | Up to 7.1 / 7.0 GB/Sec (Read / Write)<br>(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):   | -SB4: 8 x Sabrent SB-RKT4P-8TB @ 5.6 PBW / SSD = 44.8 PBW Unformatted<br>-SS5: 8 x Samsung 9100 Pro 8TB @ 4.8 PBW / SSD = 38.4 PBW Unformatted   |                             |
| 8  | Module Form Factor:  | Single-Slot, 3U PXIe Hybrid / 3U PCIe 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 | Module PXIe 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 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:   | < 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 / EN55024 / 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) (FFF Replace & Repair 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 <a href="https://tinyurl.com/muk72crx">https://tinyurl.com/muk72crx</a>  |                             |



Email [info@radxtech.com](mailto:info@radxtech.com), Visit [www.radxtech.com](http://www.radxtech.com)  
or Call +1 (619) 677-1849 x1

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