# RADX® Trifecta PXIe-SSD™-R COTS, PXIe Data Storage Modules

## *With COTS, Removable, Bootable, M.2 2280 NVMe SSD Data Cartridges*

***Cost-Effective, Bootable PXIe-SSD Module with Rapidly Removable & Replaceable SSD Data Cartridges - Ideal for Data Acquisition & ATE Systems, Rapid Backups & Security Level Changes***

- **1, 2, 4 or 8 TB per Slot** – *Removable, Upgradeable & Replaceable via Available M.2 SSD Data Cartridges*
- **PCIe G4 x4 I/F:** ***Up to ~3.5 GB/Sec Sequential R/W Performance and ~1.7 GB/Sec Sustained, Sequential Write Performance in Gen 3 PXIe Chassis – 7x Faster than SATA3 SSDs***
- **Support for Software RAID-0, -1 and -10 with Multiple Modules**
- Based on COTS, High-Perf M.2 2280 NVMe SSDs with Sanitization & OPAL Features from Samsung, SanDisk, Sabrent & Others
- Low-Power (< 15W) – *Works in ALL NI PXIe Chassis*
- Native Support for MS Windows 7, 10 & 11 and 64-bit Linux
- M.2 2280 SSDs Certified-to-Meet and PXIe Module Designed-to-Meet Key Standards: *FCC Class A, CE, RoHS, EN55022-A, ENS55024, EN300386-2 & MIL-PRF-28800F-Class 3*
- 1 Year RTF Warranty Excluding Write Performance Beyond PBW Specifications Standard - *Extended Warranty and Tech Insertion with Current or New SSDs Options Available*
- Rapid Delivery: ~30 Day Typical Leadtime in Small Volumes
- COO: US / BAA & TAA Compliant / ECCN: EAR99 NLR




***Low-Cost, Removable and Bootable PXIe Data Storage Upgrade for Increased Capacity and Performance***

**BAA / TAA Compliant**

***Module Designed & Assembled in the USA***

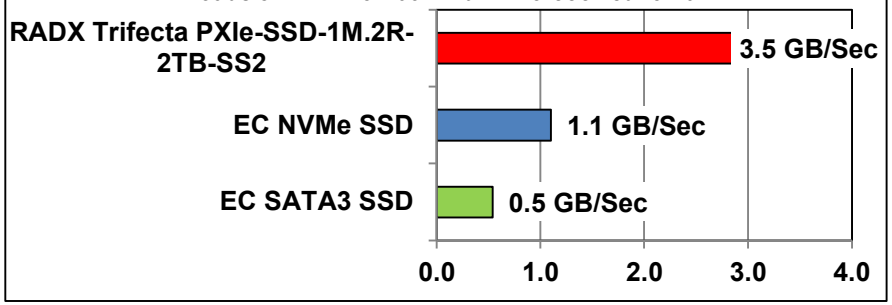


***Additional 1, 2, 4 & 8TB Replacement M.2 SSD Data Cartridges and PCIe Module May Be Purchased Separately***

***Trifecta PXIe-SSD-R Delivers 3x to 7x Faster Sequential Write Performance Versus Most Embedded Controller SSDs***

**COTS PXIe SSD Module Benchmarked**
**Average Sequential Write Performance**

*Crystal Disk Mark V8.0.4, 8GB File, 2MB Block, Queue Depth = 8, 2 Threads on NI PXIe-1092 with PXIe-8881 June 2024*




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# RADX® Trifecta PXIe-SSD™-R COTS, PXIe Data Storage Module & Removable Data Cartridge Specs

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

| | | | | | |
|---|---|---|---|---|---|
| 1 | **Trifecta-SSD-RM Module P/Ns:** *(Includes 1 x 1, 2, 4 or 8 TB M.2 SSD Cartridge Indicated in Line 25)* | **PXIe-SSD-1M.2R-1TB** | **PXIe-SSD-1M.2R-2TB** | **PXIe-SSD-1M.2R-4TB** | **PXIe-SSD-1M.2R-8TB** |
| 2 | **Q426 MSRP (FOB SJC w/ SSD Cartridge):** ***(Subject to Change Without Notice – AFQ)*** | **$3,999** | **$4,999** | **$5,999** | **$7,999** |
| 3 | **Typical Lead Time** | ~30 Days ARO for Small Volumes; 8 – 16 Weeks ARO for Volume Orders | | | |
| 4 | **Data Cartridge Unformatted Capacity:** | **1 TB** | **2 TB** | **4 TB** | **8 TB** |
| 6 | **Module PXIe Form Factor:** | Single-Slot, 3U PXIe / 3U CPCIe Type 2 with XJ3 and XJ4 Backplane Connectors | | | |
| 7 | **Typical M.2 2280 NVMe SSDs Employed:** *(All M.2 SSDs Use TLC NAND Flash - See Mfg. URLs for M.2 SSD Specs & Features)* | **Samsung 990 Pro XTB (https://tinyurl.com/msmyyy3v), Samsung 9100 Pro XTB (https://tinyurl.com/2m74x6m4), Sabrent SB-RKT4P-XTB (https://tinyurl.com/3m6xf7bk)** | | | |
| 8 | **PXIe Module and M.2 SSD Cartridge PCIe I/F:** | PCIe G4 x4 (Samsung 990 Pro, Sabrent SB-RKT4P-XTB) or PCIe G5 x4 (Samsung 9100 Pro)<br>*Note: Most PXIe Systems Limited to PCIe G3 x4 (Up to ~3.8 GB/Sec)* | | | |
| 9 | **Sequential Read/Write Benchmark Perf in PXIe Gen 3 x4 or Gen 3 x8 Slots:** | **~3.5 GB/Sec Sustained Sequential Read / ~3.25 GB/Sec Sequential Write**<br>~1.0 to ~1.7 GB/Sec Sustained Sequential Write (Once Write Cache is Exhausted)<br>*CrystalDiskMark V.8.04, 64GB File, 2MB Block, Queue Depth 8, 2 x Threads, in NI PXIe-1092 Chassis with NI PXIe-8881 EC* | | | |
| 10 | **M.2 SSD Endurance (PBW, Unformatted):** | **≥ 0.6 PBW-UF** | **≥ 1.2 PBW-UF** | **≥ 2.4 PBW-UF** | **≥ 4.8 PBW-UF** |
| 11 | **M.2 SSD Data Cartridge Mating Cycles:** | ≥ 500 Mating Cycles | | | |
| 12 | **PXIe Module Dimensions:** | PXIe Module: 0.4 kg / 100 mm H x 160 mm D x 20.32 mm W (4HP) – Excluding Packaging<br>*(0.9 lbs / 3.94 in H x 6.3 in D x 0.8 in W [4HP])* | | | |
| 13 | **M.2 2280 SSD Data Cartridge Dimensions:** | M.2 2280 SSD Data Cartridge: 0.75 g / 39 mm H x 140 mm D x 7.5 mm W – Excluding Packaging | | | |
| 14 | **Operating System Support:** | Microsoft Windows 7, 10 and 11 64-bit, Linux and RT Linux | | | |
| 17 | **Software RAID Configurations Supported:** | Software RAID-0, 1, 5 and 10 - with Multiple Modules Installed (~6 GB/Sec Seq. R/W in RAID-0 x2) | | | |
| 18 | **Front Panel M.2 Status LED:** | Power (Solid Green), Drive Activity (Blinking Green), Off (No Drive Present) | | | |
| 19 | **Operating Power Dissipation & Req'd Air Flow:** | < 12 W Max and < ~15 LFM | | | |
| 20 | **Non-Op / Op Temp & Rel. Humidity:** | Non-Op Temp: -40° to +85° C / Op Temp: 0° to 55° C / Rel. Humidity: 10% to 90%, Non-Condensing | | | |
| 21 | **Regulatory & Environmental Compliance (Certified & Designed to Meet):** | M.2 2280 SSD Certified to Meet and PXIe Module Designed to Meet FCC Part 15-B Class A / CE / RoHS / EN55022 Class A / ENS55024 / EN300386-2 / MIL-PRF-28800F Class 3 | | | |
| 22 | **Module & Data Cartridge Std. Warranty:** | 1 Year Return to Factory Standard (Excluding M.2 SSD Write Endurance) *(Extended Warranty Available)* | | | |
| 23 | **PXIe Module with Included M.2 SSD Data Cartridge Export Compliance Info:** | BAA/TAA Compliant / COO: USA (Designed & Assembled in the USA) /<br>ECCN: EAR99 NLR / US HTC: 8523510000 | | | |
| 24 | **Add'l M.2 SSD Data Cartridge P/Ns:** | **DC-1M.2R-1TB** | **DC-1M.2R-2TB** | **DC-1M.2R-4TB** | **DC-1M.2R-8TB** |
| 25 | **Separately Purchased M.2 2280 SSD Data Cartridge Export Compliance Info:** | BAA/TAA Compliant / COO: Varies by SSD / ECCN: EAR99 NLR / US HTC: 85235100 | | | |
| 26 | **M.2 SSD Data Cartridge COO:** | KR, VN, MY or TW | | | |
| 27 | **Add'l M.2 SSD Data Cartridge H126 MSRP (FOB SJC EXCLUDING US Import Tariffs for SSDs):** | **$1,999** | **$2,999** | **$3,999** | **$5,999** |
| 28 | **GSA Availability including Shipping in USA:** | **Modules and SSD Cartridges Available on GSA via TestMart at https://tinyurl.com/muk72crx** | | | |


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