

Radiation-Tolerant Storage Built for High-Reliability System

The Unseen Threat



High Humidity &
Vibration



Radiation Exposure



Extreme Temperature



Data Integrity &
Power Loss

Engineered Defense

Underfill & Conformal Coating

Underfill technology ensures continuous operation through extreme stresses like rocket launch shock. While Conformal Coating seals electronics against moisture and contaminants, extending product life in uncontrolled environments.

Neutron Shield™ 2.0

Featuring real-time bit flip correction, this technology offers a cost-effective solution for commercial LEO and high-reliability applications without sacrificing high performance.

Adaptive Thermal Control™

ATC intelligently monitors drive temperatures and automatically balances power consumption with performance, maintaining the highest possible sustained speed without hitting the thermal throttling limit.

SuperCruise™ & Power Loss Protection

SuperCruise™ guarantees the steady write performance critical for continuous logging, while Dual Power Loss Protection (DPLP) instantly secures data during power failure, comprehensively eliminating corruption risk.

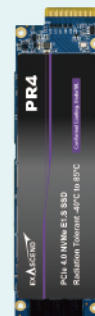
High-Reliability Lineup

Proven Solutions for Extreme Environments



PR4 U.2 (7mm)

- PCIe Gen 4x4 / NVMe 1.4
- 3D TLC / pSLC
- Wide Temperature: -40°C to 85°C
- 960GB to 15.36TB
- Up to 3,465 MB/s sustained performance
- Conformal Coating | BGA Underfill
- PhoenixCore™
- Adaptive Thermal Control™ | SuperCruise™
- Power Loss Protection(HWPLP)



PR4 E1.S

- PCIe Gen 4x4 / NVMe 1.4
- 3D TLC / pSLC
- Wide Temperature: -40°C to 85°C
- 960GB to 7.68TB
- Up to 3,465 MB/s sustained performance
- Conformal Coating | BGA Underfill
- PhoenixCore™
- Adaptive Thermal Control™ | SuperCruise™
- Power Loss Protection(HWPLP)



PR4 M.2 2280/2242

- PCIe Gen 4x4 / NVMe 1.4
- 3D TLC / pSLC
- Wide Temperature: -40°C to 85°C
- 480GB to 3,840GB
- Up to 3,230 MB/s sustained performance
- Radiation Tolerant by Design*
- SpectraShield™ Conformal Coating*
- SpectraSeal™ Underfill (NASA compliant)*
- ESCC 22900-TID 25Krad* / ESCC 25100-SEE 37.5MeV*

*For PR4 V2_M.2 2280



BGA AR500

- PCIe Gen 4x4 / NVMe 1.4
- 3D TLC
- Wide Temperature: -40°C to 105°C (Tcase)
- DRAM-less with HMB support
- 128GB to 1TB
- Up to 4,200 MB/s sustained performance
- SEE (Single Event Effects): 37.9 MeVcm²/mg (Si)
- TID (Total Ionizing Dose): 40kard(Si)