



SSD Quality & Reliability Profile

PNY SSD Technology: Reliability, Durability and Performance

What today's companies need are high performance Solid-State Drives (SSD) that are reliable, fast, durable and able to handle years of heavy use without any loss in performance and reliability. PNY ensures that these stringent requirements are met by submitting its SSDs to rigorous testing and measuring the results against the highest standards in the industry.

PNY's impressive state-of-the-art, ISO 9001 Certified and UL approved, manufacturing facilities in New Jersey and innovation center in San Jose were designed with quality control in mind. This is where PNY SSDs are put through their paces and rigorously tested using proven industry standard techniques for solid-state drives. The data obtained from these comprehensive tests are used to improve the manufacturing process at every stage and to deliver the highest performing, most durable and most reliable SSDs on the market.

PNY's Best Practices Infrastructure and Methodology

PNY ensures that the performance and reliability targets for its Solid-State Drives are consistently met or exceeded through:

- Production Testing
- Qualification
 - Reliability Demonstration Testing (RDT)
 - Design Verification Testing (DVT)
- Quality Assurance
 - Ongoing Reliability Testing (ORT)
- Device Screening
- JEDEC and SNIA Certification

PNY also ensures that partners receive the highest level of service and customization on their deliverables by testing to Customer Qualification requirements, both in-house and on-site, as well as running Customer-Specific workloads and specifications. PNY has the added benefit of being a US-based organization, which also supports IP protection.

PNY's Reliability Demonstration Testing (RDT)

- Endurance RDT and Data Retention requirements per JESD218A/JESD219A
- RDT Test Descriptions:
 - Telcordia MTBF – MTBF paper study based on BOM, planning for qualification of product
 - Quality RDT – 500 hours to 1000 hours of test to demonstrate MTBF
 - Endurance RDT – demonstrate reliability to specified endurance rating (TBW)
 - Data Retention – meet JEDEC data retention conditions at endurance rating (TBW)
- Flexstar testers capability available in Engineering (SJ) and Manufacturing (NJ)
- **PNY's Ongoing Reliability Testing (ORT):** Ensures that the quality of PNY's SSDs are of the same specifications as the day they first went into production by validating to the scripts used in PNY's RDT.