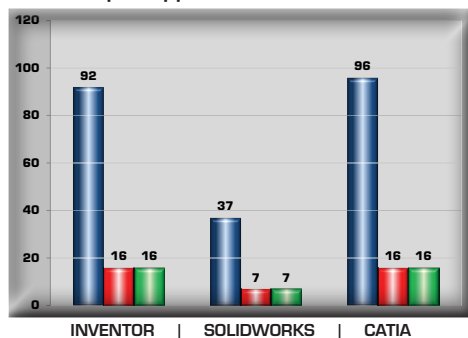**PNY's PREVAIL Professional SSDs** are designed to provide professionals with an eMLC NAND Flash memory drive, designed for use in workstations, servers, storage and NAS solutions.
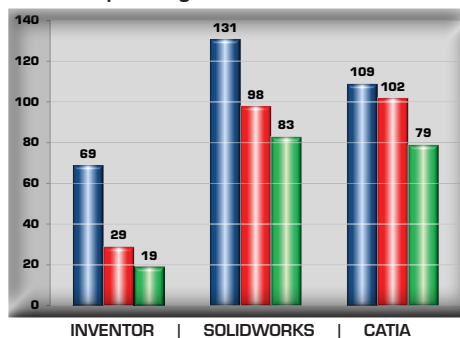
Workstations can benefit greatly from an SSD, and the PNY Prevail Elite is an example of a drive that can drastically increase productivity and creativity. Professionals such as designers and engineers require both reliability and excellent performance when using the most demanding applications.

When compared with HDDs, PNY Prevail SSDs will significantly increase a workstation's random read/write speeds, allowing users to optimize their workflows.
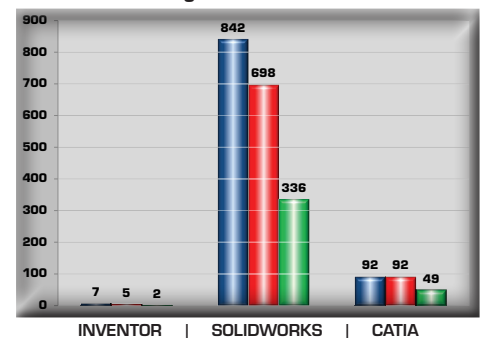
Time to open applications

HDD + HDD — Time in seconds
SSD + HDD — Test done by Mr. Rick Schulz, working as an editor for CAD.de
SSD + SSD

Time to open large assemblies

Time to save large assemblies

Test Setup : Intel Xeon E5-1650 / Intel C606 chipset / 32 GB – NVIDIA Quadro 4000 - HDD Seagate ST1500DM003 1,5 TB / 7200 rpm / 64 MB cache - SSD PNY Prevail 240 GB - Windows 7 64bit SP1
Autodesk Inventor 2013 64bit 533 parts / 320 MB - Dassault SolidWorks 2013 64bit 1317 parts / 403 MB - Dassault CATIA V5 R19 64 bit 770 parts / 424 MB

The **PNY Prevail and Prevail Elite** ranges are the perfect solution for CAD/CAM, 3D, Video Editing and Imaging workstations.

The PNY Prevail Elite's high I/O (up to 85,000 IOPS) and transfer rates and excellent power consumption compare very favorably with equivalent server drives (0.1 W + 5 W compared to 0.65 + 6 W or up to 3 W + 8 W). Key to the drive's positioning as a potential server model is its pricing, offering a viable solution to the server market. PNY also ensures that a structured support process for its professional customers, and guarantees long-term availability for the drive, should clients need to add or replace drives. Its endurance rating and warranty also make sure that the drive is a secure investment (the drive will withstand up to 1.5 PB of data transfer).

PNY's SSD 5 Years Experience
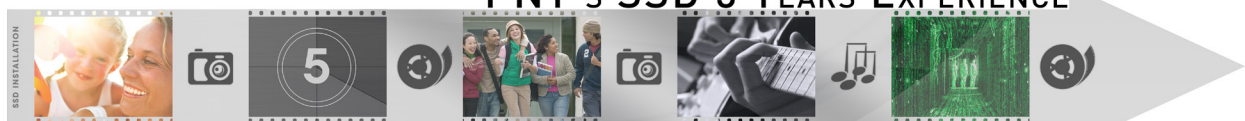
15+ GB/Day
1k P/E Memory

50+ GB/Day
3k P/E Memory

80+ GB/Day
5k P/E Memory

150+ GB/Day
10k P/E Memory

Standard Consumer SSD
Endurance Rating:
1K Program/Erase cycles

PNY Prevail
Endurance Rating:
3K Program/Erase cycles

PNY Prevail
Endurance Rating:
5K Program/Erase cycles

PNY Prevail Elite
Endurance Rating:
10K Program/Erase cycles

PART NUMBERS:

	Prevail 3K	Prevail 5K	Prevail Elite 10K
120 GB	SSD9SC120GCDA-PB	SSDPREV120G5K01-PB	SSD9SC120GEDA-PB
240 GB	SSD9SC240GCDA-PB	SSDPREV240G5K01-PB	SSD9SC240GEDA-PB
480 GB	SSD9SC480GCDA-PB	SSDPREV480G5K01-PB	SSD9SC480GEDA-PB

PRODUCT SPECIFICATIONS

PHYSICAL

USABLE CAPACITIES (IDEMA)	120 GB ~ 480 GB
NAND COMPONENTS	SYNCHRONOUS-MODE MULTI-LEVEL CELL (MLC)
INTERFACE	SERIAL ATA 6Gb/s (SATA III)
FORM FACTOR	63.5 mm / 2.5 inch
DIMENSIONS (L × W × H)	100 × 70 × 9.5 mm
WEIGHT	80g

ENVIRONMENTAL

	3k	5k	10k
POWER CONSUMPTION	2.1W Typical, 0.1W Idle	2.5 W Typical, 50mW Idle	5W Typical, 0.1W Idle
AMBIENT TEMPERATURE	0°C ~ 55°C		
OPERATING TEMPERATURE	0°C ~ 70°C		
STORAGE TEMPERATURE	-45°C ~ 85°C		
CERTIFICATIONS	RoHS, CE, FCC, REACH, BEMI, UL		

COMPATIBILITY

SERIAL ATA	Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.1. Fully compliant with ATA/ATAPI-8 Standard Native Command Queuing (NCQ)
OPERATING SYSTEM	Windows XP 32-bit / 64-bit; Windows Vista 32-bit / 64-bit; Windows 7 32-bit / 64-bit; Windows 8; Linux; Mac OS X
POWER REQUIREMENTS	Standard SATA Power Connector

PERFORMANCE

MAX READ	up to 550 MB/s
MAX WRITE	up to 520 MB/S
RANDOM READ/WRITE	up to 85,000 IOPS

ADDITIONAL FEATURES

PERFORMANCE OPTIMIZATION	TRIM (requires OS support)
SERVICE & SUPPORT	5 year warranty.

RELIABILITY/SECURITY

	3k	5k	10k
ENDURANCE	3K Program/Erase cycles	5K Program/Erase cycles	10K Program/Erase cycles
MTBF	1.2 million hours	1.2 million hours	2 million hours
DATA FAIL RECOVERY	Recovers data from up to one NAND flash block (available on 120GB and up)		
DATA PATH PROTECTION	ECC: Up to 55 bits correctable per 512-byte sector		
DATA RELIABILITY	Read unrecoverable bit error rate (UBER) 10e-16		
DATA ENCRYPTION	128-BIT AES-COMPLIANT		
PRODUCT HEALTH MONITORING	Self-Monitoring, Analysis and Reporting Technology (SMART) Support		

UPGRADE KIT	PART NUMBER
- 3.5" to 2.5" mounting bay - Compliant connectivity - Clone software	P-72002535-M-KIT