



Enthusiast Edition

PNY SSDs offer long lasting high performance storage designed for gaming, photo/video applications and faster system performance. A bandwidth of up to 500MB/sec transfers and throughput of up to 80,000 random IOPS will launch multiple operating systems and programs in seconds while preserving data longer with Compute grade NAND flash.

Performance & Security

- High speed data transfers of up to 500 MB/sec for faster OS and system application loading, resulting in faster boot up times and quicker resume from sleep mode
- AES encryption support, user-selectable passwords and Secure Erase features keep your data protected
- Random Read/Write up to 80,000 IOPS for heavy use applications

Reliability

- Features high endurance Compute NAND flash rated with P/E cycles of 3K to support gaming, photo, video and system building applications
- Drive health is monitored using an SSD-specific set of S.M.A.R.T attributes

Applications

- Storage/Cloud Data
- Medical
- Gaming
- Networking
- Automotive
- Telecommunications
- Surveillance

Designed and Assembled in the USA

With domestic and foreign parts

PHYSICAL	
Usable Capacities (IDEMA)	120 GB ~ 480 GB
NAND Components	Multi-Level Cell (MLC)
Interface	Serial ATA 6Gb/s (SATA III)
Form Factor	2.5 inch
Dimensions (L x W x H)	100 x 70 x 9.5 mm
Weight	80g
PERFORMANCE	
Max Read	up to 500 MB/s
Max Write	up to 450 MB/s
Random Read/Write Operations (4kB)	up to 80,000 IOPS
ENVIRONMENTAL	
Power Consumption	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
RELIABILITY/SECURITY	
MTBF	1.2 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
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 8 / Windows XP 32-bit / 64-bit; Windows Vista 32-bit / 64-bit; Windows 7 32-bit / 64-bit; Linux; Mac OS X
Power Requirements	Standard SATA Power Connector
ADDITIONAL FEATURES	
Performance Optimization	TRIM (requires OS support)
Service & Support	3-Year Limited Warranty; Toll free technical support lines