PNY
Solid State Drives

PNY PREVAIL SSD

3k **PROMISE**
HIGH ENDURANCE

High Endurance SSD

PNY Prevail SSDs offer incredible performance to satisfy the most demanding power user, providing a bandwidth of up to 550MB/sec transfers. Throughput reaches enterprise class standards with up to 85,000 random IOPS to make the ideal storage drive.

Performance & Security

- AES encryption support, user-selectable passwords and Secure Erase features keep your data protected
- High speed data transfers of up to 550 MB/sec read and 520 MB/sec write for faster access and storage
- Random Read/Write up to 85,000 IOPS for high performance applications

Reliability

- Features high endurance Compute NAND flash rated with P/E cycles of 3K to support commercial and system building applications
- Efficient bad block management and reduced write amplification further bolster endurance
- Drive health is monitored using an SSD-specific set of S.M.A.R.T attributes

Applications

- Cloud Storage
- Networking
- RAID Configurations
- Servers

Designed and Assembled in the USA

With domestic and foreign parts

PART NUMBER	SIZE	UPC	MLC ENDURANCE	READ/ WRITE	IOPS	PACKAGE TYPE
SSD9SC120GCDA-PB	120GB	751492530024	3K Compute	550/515	85K	RETAIL
SSD9SC240GCDA-PB	240GB	751492530031	3K Compute	550/520	85K	RETAIL
SSD9SC480GCDA-PB	480GB	751492534572	3K Compute	550/520	85K	RETAIL
SSD9SC120GCDA-WH	120GB	751492531762	3K Compute	550/515	85K	BOX
SSD9SC240GCDA-WH	240GB	751492531779	3K Compute	550/520	85K	BOX
SSD9SC480GCDA-WH	480GB	751492534589	3K Compute	550/520	85K	BOX
SSD9SC120GCDA-BLK	120GB	751492529943	3K Compute	550/515	85K	BULK 20-PK
SSD9SC240GCDA-BLK	240GB	751492529967	3K Compute	550/520	85K	BULK 20-PK
SSD9SC480GCDA-BLK	480GB	751492534886	3K Compute	550/520	85K	BULK 20-PK

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	2.5 inch
Dimensions (L × W × H)	100 × 70 × 9.5 mm
Weight	80g

PERFORMANCE	
Max Read	up to 550 MB/s
Max Write	up to 520 MB/s
Random Read/Write Operations (4kB)	up to 85,000 IOPS

ENVIRONMENTAL	
Power Consumption	2.1W 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	
Endurance	3K Program / Erase cycles
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. 5 year limited warranty upon registration at www.pny.com. Toll free technical support lines

PNY
Make Life Simple™