



## CS1031 Solid State Drive



### High Performance

Transfer speed faster than a traditional SATA based storage



### Enhanced Reliability

Non-volatile NAND up to 30 times more robust than HDDs



### 5-Year Warranty

Extended protection and peace of mind

## CS1031 SOLID STATE DRIVES

The PNY CS1031 M.2 NVMe SSD is an excellent choice for an NVMe Gen3 upgrade for more storage or improved performance as compared to a SATA based solid state drive (SSD) or traditional hard drive (HDD) in an NVMe enabled desktop or laptop computer, the NVMe interface delivers high performance of up to 2,400 MB/s seq. read and 1,750 MB/s seq. write speeds.

The PNY CS1031 drive is designed to be an upgrade from conventional SATA based storage to take advantage of the high bandwidth of the NVMe interface to help realize faster boot times, quicker application launches, and better overall system performance. Do more in less time with NVMe; boot up, power down, and load applications up to 3 times faster than with SATA based SSD's. With no moving parts, the PNY CS1031 M.2 NVMe SSD is highly durable, less likely to fail, and supports a 5 year warranty.

The PNY CS1031 is engineered with the same level of quality and durability that our consumers have enjoyed with the CS900 SSD. We've taken the world's most advanced NAND flash and refined the CS1031 to achieve a higher threshold for endurance and reliability. PNY's extensive testing and rigorous validation process ensures compatibility across various platforms and multiple operation systems.

## APPLICATIONS

- NVMe upgrade from a SATA based solid state drive (SSD) in an existing NVMe enabled PC or MAC desktop or laptop computer
- High performance SSD with up to 3 times the performance as compared to SATA based SSDs

## FEATURES AND BENEFITS

- Sequential Read of up to 2,400 MB/s and Write of up to 1,750 MB/s
- Faster boot up and quicker application launch
- Better overall system performance
- Reliable storage
- Low power consumption, cool and quiet operation

## PRODUCT SPECIFICATIONS

NAND Components	3D NAND
Interface	PCIe
Form Factor	M.2

### PERFORMANCE (MAX SEQUENTIAL READ/WRITE)

256GB	1,700 MB/s (Read), 1,100 MB/s (Write)
500GB	2,200 MB/s (Read), 1,200 MB/s (Write)
512GB	1,700 MB/s (Read), 1,500 MB/s (Write)
1TB	2,400 MB/s (Read), 1,750 MB/s (Write)
2TB	2,400 MB/s (Read), 1,750 MB/s (Write)

### POWER

PCIe Power Management	APST, ASPM, L1.2
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### ENVIRONMENTAL

TBW	256GB: 150 ; 500GB: 110 ; 512GB: 350; 1TB: 240; 2TB: 480
Operating Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Certifications	BSMI, CE, FCC, KCC, VCCI, REACH, RoHS

### RELIABILITY/SECURITY

Mean Time Between Failures (MTBF)	2,000,000 Hours
Error Correction Code	Less than 1 sector per ten quadrillion bits read
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T)
Full End-to-End Data path protection	Supported

### COMPATIBILITY

RAID (0/1)	Supported
NVMe	NVMe 1.3

### ADDITIONAL FEATURES

Performance Optimization	TRIM (requires OS support)
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## PRODUCT INFORMATION

Service & Support	5-Year Limited Warranty*
Usable Capacities (IDEMA)	256GB, 500GB, 512GB, 1TB
PNY Part Number	256GB: M280CS1031-256-CL 500GB: M280CS1031-500-CL 512GB: M280CS1031-512-CL 1TB: M280CS1031-1TB-CL 2TB: M280CS1031-2TB-CL
EAN	256GB: 4718006450397 500GB: 4718006453411 512GB: 471800645040 1TB: 4718006453428 2TB: 4718006453527
Retail Dimensions	123 x 85 x 4.3 mm
Dimensions (L x W x H)	22 x 80 x 2 mm
Weight	6.6g

\*For warranty details please see [www.pny.com](http://www.pny.com).