



CS2140 Solid State Drive



Next Gen

NVMe Gen4 transfer speed, PCIe 4.0 Compliant



Enhanced Reliability

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



5-Year Limited Warranty or TBW*

Extended protection and peace of mind

CS2140 SOLID STATE DRIVES

The CS2140 M.2 NVMe Gen4 x4 Solid State Drive is the ideal solution for PC enthusiasts, gamers, and video rendering professionals to upgrade to the latest in NVMe technology. The NVMe Gen4 x4 interface delivers exceptional performance of up to 3,600MB/s seq. read and 3,200MB/s seq. write speeds. It is designed to be an entry Gen4 x4 SSD to deliver the performance and the best cost effective product to level up your computer to the next storage generation. Boot up in seconds, enjoy next gen upgrade with lightning fast application launches, and incredible system performance. The PNY CS2140 is highly durable, less likely to fail, and features a 5-year limited warranty or TBW.* The PNY CS2140 is engineered with the same level of quality and durability that our customers have enjoyed for over 35 years. We've taken the world's most advanced NAND flash and refined the CS2140 to achieve a higher threshold for endurance and reliability. PNY's extensive testing and rigorous validation process ensures compatibility across various platforms and multiple operating systems.

APPLICATIONS

- NVMe Gen4 upgrade from a SATA based solid state drive (SSD) in an NVMe enabled computer
- High performance SSD with up to double the performance as compared to entry Gen3 x4 based SSDs

FEATURES AND BENEFITS

- Sequential Read of up to 3,600 MB/s and Write of up to 3,200 MB/s
- Faster boot up, quicker application launch, and better overall system performance
- Cost effective and high performance is ideal for demanding applications, games and workloads.
- Backed by a 5 year limited warranty or TBW* & live tech support

PRODUCT SPECIFICATIONS

NAND Components	3D Flash Memory
Interface	PCIe Gen4 x4
Form Factor	M.2 2280

PERFORMANCE (MAX SEQUENTIAL READ/WRITE)

250GB	3200 MB/s (Read), 1,200 MB/s (Write)
500GB	3,600 MB/s (Read), 2,300 MB/s (Write)
1TB	3,600 MB/s (Read), 3,200 MB/s (Write)
2TB	3,600 MB/s (Read), 3,200 MB/s (Write)

POWER

PCIe Power Management	APST, ASPM, L1.2
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ENVIRONMENTAL

Operating Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C

RELIABILITY/SECURITY

TBW	250GB : 150 , 500GB : 200 1TB : 400, 2TB : 800
Mean Time Between Failures (MTBF)	1,500,000 Hours
Error Correction Code	LDPC (Low Density Parity Check) ECC Algorithm
Secure Erase	Standard, Enhanced Secure Erase
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 1.4
Performance Optimization	HMB (Host Memory Buffer)

PRODUCT INFORMATION

Service & Support	5-Year Limited Warranty or TBW*
Usable Capacities (IDEMA)	500GB, 1TB, 2TB
PNY Part Number	250GB: M280CS2140-250-RB 500GB: M280CS2140-500-CL 1TB: M280CS2140-1TB-CL 2TB: M280CS2140-2TB-CL
EAN	250GB: 4718006452544 500GB: 4718006451615 1TB: 4718006451622 2TB: 4718006451639
Retail Dimensions (L x W x H)	123 x 85 x 4.3 mm
Product Dimension (L x W x H)	22 x 80 x 4 mm (Max)
Weight	6.6g

*For full details visit www.pny.com