PNY®

CS2142
Solid State Drive

Extreme Performance
Transfer speed faster than a traditional SSD

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

5-Year Limited Warranty
Extended protection and peace of mind

CS2142 SOLID STATE DRIVES

The CS2142 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 5,000MB/s seq. read and 3,200MB/s seq. write speeds. It is designed to be an entry-level Gen4 x4 SSD that provides the highest performance and the best value when upgrading your computer to the next storage generation. Boot up in seconds and enjoy this next gen upgrade with lightning fast application launches and incredible system performance.

The PNY CS2142 is highly durable, less likely to fail, and features a 5-year limited warranty or TBW.* The PNY CS2142 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 CS2142 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 5,000 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 2230

PERFORMANCE (MAX SEQUENTIAL READ/WRITE)

1TB	4,900 MB/s (Read), 3,200 MB/s (Write)
2TB	5,000 MB/s (Read), 3,200 MB/s (Write)

POWER

PCIe Power Management	PS0/PS1/PS2/PS3/PS4 APST, ASPM, L1.2

ENVIRONMENTAL

Operating Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Certifications	BSMI, CE, FCC, KCC, REACH, RoHS, VCCI

RELIABILITY/SECURITY

Mean Time Between Failures (MTBF)	1,500,000 Hours
Error Correction Code	LDPC (Low Density Parity Check) ECC Algorithm
Secure Erase	Secure Erase,Crypto 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
Usable Capacities (IDEMA)	1TB, 2TB
PNY Part Number	1TB: M230CS2142-1TB-TB 2TB: M230CS2142-2TB-TB
EAN	1TB: 4718006456214 2TB: 4718006456221
UPC	1TB: 751492783741 2TB: 751492783758
Retail Dimensions (L x W x H)	123 x 85 x 4.3 mm
Product Dimension (L x W x H)	30 x 22 x 1.35 mm(Max)
Weight	2.8g

*For full details visit www.pny.com

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