



CX2 Series Solid-State Drives | NVMe M.2 PCIe

Lite-On SSDs Move at the Speed of You

Stop waiting for application load times. Do more by running your system longer, faster and more efficiently.

HIGH PERFORMANCE - BREAK THE SATA LIMITATION

Meet the perfect solid-state drive solution for boot and caching needs. Lite-On's CX2 Series Solid-State Drives with the NVMe M.2 PCIe interface boosts your device's performance by accelerating application responsiveness, increasing productivity, and improving energy efficiency. Featuring the NVMe protocol with Lite-On's customized firmware, commands are streamlined and subsequently, result in improvement. The NVMe protocol can process much heavier workloads with greater performance than SATA/AHCI interface. Surpass the performance limitation by SATA interface AHCI protocol and enter the next generation of PCIe with NVMe. This simple upgrade, delivers superior speed at 4KB random read performance of up to 270,000 IOPS and 4KB write performance of up to 150,000 IOPS.

With its small form factor and M.2 interface, the latest in SSD design, the CX2 fits easily into a motherboard's PCIe slot. Built to expedite your data efficiently and securely no matter what the file type it operates more efficiently than traditional HDDs, while consuming less power.

ENHANCE ENDURANCE WITH LOW DENSITY PARITY CHECK (LDPC)

Take advantage of the latest improvement in error correction with LDPC. LDPC has greater correction power than conventional BCH to extend the life of the drive.

THE FIRMWARE ADVANTAGE

Our dedicated engineers work closely with high-grade chip manufacturers to develop solutions particular to your needs. Lite-On SSDs are already an industry-leading product, and with Lite-On's customized proprietary firmware, your Lite-On SSD will provide superior performance at consistent speeds for years to come.

FEATURES

- HIGH PERFORMANCE
- NVME FOR LOWER LATENCY
- SMALL SIZE FOR BETTER AIRFLOW
- LDPC (LOW DENSITY PARITY CHECK) FOR EXTENDED LIFE-SPAN
- CUSTOMIZED FIRMWARE
- AVAILABLE IN 128/256/512/1024 GB CAPACITIES

APPLICATION WORKLOADS

- BOOT DRIVE
- CACHE DRIVE
- PERFECT FOR WEB DEVELOPMENT, VIDEO EDITING, AND GRAPHIC DESIGN APPLICATIONS



CX2 Series Enterprise Solid-State Drives | NVMe M.2 PCIe

Technical Specifications				
Model Name	CA1-8B128	CA1-8B256	CA1-8B512	CA1-GB1T
Capacity	128 GB	256 GB	512 GB	1TB
Performance				
Sequential Read/Write ¹	1900/450 MB/s	2100/810 MB/s	2200/1500 MB/s	2200/1500 MB/s
4K Random Read/Write ¹	150K/100K IOPS	200K/150K IOPS	270K/150K IOPS	270K/150K IOPS
Compatibility				
Host Interface	NVMe PCIe Gen 3x4			
Form Factor	M.2 2280: 80mm x 22mm x 3.65mm @ 18g Max			
Reliability				
Power On/Off Cycles	50,000			
MTBF ²	1.5 million hours			
Warranty	3 year warranty			
Features				
ECC	LDPC Gen 3 Engine			
S.M.A.R.T	Support			
NVMe Deallocate	Support			
TCG-OPAL 2.0	Optional			
Power Consumption				
L0 State (Active Mode)	1.32W			
L0s State (Idle Mode)	N/A			
L1 State (Sleep Mode)	50mW			
Environment				
Operating Temperature	0 to 70° C			
Non-operating Temperature	-40 to 85° C			
Power-on Ready ³	300ms			
Resume for L1 State	100ms			

1. Based on internal testing, performance may vary depending on host device, OS, and application.

2. MTBF – Mean Time Between Failures based on parts stress analysis.

3. Assumes that drive had normal shutdown process previously with STANDBY IMMEDIATE command.



For more information, please visit
liteonssd.com



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Lite-On Storage is a Strategic Business Group (SBG) of Lite-On Technology Corporation.

Lite-On Storage is a global leader in the design, development, and manufacturing of Solid State Drives (SSDs) and Optical Disc Drives (ODDs).

Lite-On Storage offers customized solutions and superior firmware to PC Client, Industrial Solutions, Automotive, Enterprise, and Cloud Computing environments. All Lite-On SSDs are designed and developed 100% in-house at their state-of-the-art facilities in Taiwan.

Specifications and data are subject to change without notice.