

CV6 Series M.2 Solid-State Drives | SATA 6 Gb/s



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.

FAST CONSISTENT PERFORMANCE

LITE-ON's CV6 Series M.2 Solid-State Drive with the SATA interface boosts your device's performance by accelerating application responsiveness, increasing productivity, and improving power efficiency. This simple upgrade delivers superior speed at a sequential read/write speeds of up to 520/450 MB/s with random/write speeds of 70K/45K IOPs. With quick response times, a LITE-ON SSD will keep pace with your busy lifestyle.

The CV6 series SSD adopts the low-density parity-check (LDPC) algorithm. By implementing the controller's LDPC error-correcting technology, this extends the drives endurance with TLC Flash as much as 33%, hitting reliability levels only attainable with MLC flash. The blazing-fast writes are achieved by intelligently treating certain memory cells as premium single-level cell NAND for maximum speed. When, during idle time, data in those cells is stashed away to fully exploit the capacity benefits of TLC flash.

Operating more efficiently than traditional HDDs, the CV6 M.2 consumes less power, which extends your system's battery life.

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.

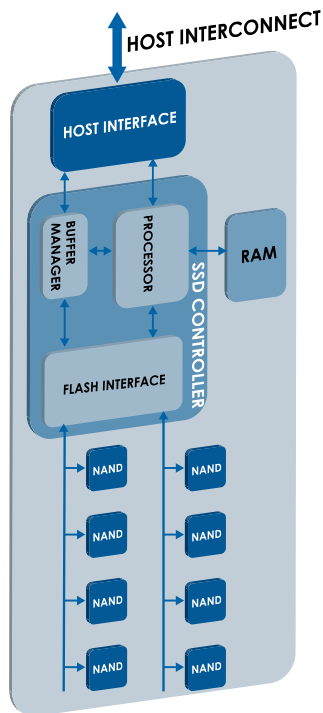
FEATURES

- LOW-DENSITY PARITY-CHECK (LDPC) SUPPORT
- HIGH PERFORMANCE
- LOW POWER CONSUMPTION
- RELIABILITY
- IN-HOUSE FIRMWARE
- AVAILABLE IN 128 AND 256 GB CAPACITIES

APPLICATION WORKLOADS

- EVERYDAY USAGE
- GAMING
- MULTI-MEDIA AND VISUAL EFFECTS EDITING

SOLID-STATE DRIVE COMPONENTS



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Technical Specifications		
Model Name	CV6-8Q128	CV6-8Q256
Capacity	128 GB	256 GB
Performance		
Sequential Read/Write ¹	520/450 MB/s	520/450 MB/s
4K Random Read/Write ¹	55K/30K IOPS	70K/45K IOPS
Compatibility		
Host Interface	SATA 6Gb/s	
Form Factor	M.2 (80 mm x 22 mm x 3.65 mm) @ 10g max	
Reliability		
MTBF ²	1.5 million hours	
Features		
ECC	LDPC Gen 3	
S.M.A.R.T	Supported	
TRIM Command	Supported	
Password Protection	Supported	
Dimensions and Weight		
DEVSLP	3 mW (0.003 W)	
Typical (DIPM Enable)	0.25 W	
Environment and Reliability		
Operating Temperature	0 to 70° C	
Non-operating Temperature	-40 to 85° C	
Power-on Ready	500 ms	
Resume from DEVSLP	100 ms	

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.

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.

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