



CV8 Series Solid-State Drives | M.2 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 CV8 Series Solid-State Drives with the M.2 SATA interface boosts your device's performance by accelerating application responsiveness, increasing productivity, and improving power efficiency. This simple upgrade delivers superior speed at 4KB random read performance of up to 80,000 IOPS and 4KB write performance of up to 60,000 IOPS. With lightning fast response times, a LITE-ON SSD will keep pace with your busy lifestyle.

Say good-bye to system boot-up or program wait times. Download large files in seconds rather than minutes and access your stored movies, games, photos and music with ease and speed. The LITE-ON CV8 Series SSDs are built to expedite your life's data efficiently and securely no matter what the file type.

With its small form factor and M.2 interface, the latest SSD design, the CV8 fits easily into today's ultra-thin notebooks. Operating more efficiently than traditional HDDs, the CV8 consumes less power, which extends your system's battery life.

REDUNDANT ARRAY OF INDEPENDENT FLASH ELEMENTS

LITE-ON's Redundant Array of Independent Flash Elements (R.A.I.F.E) enables the next generation of error correction and data protection. Every data that is entered through the SSD will be protected by parity, so data can be recovered beyond standard ECC protection.

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
- BEST IN CLASS QUALITY
- RELIABILITY
- CUSTOMIZED FIRMWARE
- AVAILABLE IN 128/ 256/ 512 GB CAPACITIES
- NAND RAID IMPLEMENTED WITH RAIFE TECHNOLOGY

APPLICATION WORKLOADS

- BOOT DRIVE
- CACHE DRIVE
- ULTRA BOOK COMPUTING

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Technical Specifications			
Model Name	CV8-8E128	CV8-8E256	CV8-8E512
Capacity	128 GB	256 GB	512 GB
Performance			
Sequential Read/Write ¹	550/380 MB/s	550/450 MB/s	550/450 MB/s
4K Random Read/Write ¹	70K/40K IOPS	90K/68K IOPS	90K/70K IOPS
Compatibility			
Host Interface	6.0 Gb/s (Compatible to 1.5/3.0 Gb/s)		
Form Factor	M.2 2280: 80mm x 22mm x 3.65mm, 10g max		
Reliability			
MTBF ²	1.5 million hours		
Features			
S.M.A.R.T	Support		
TRIM Command	Support		
Password Protection	Support		
Power Consumption			
DEVSLP	3 mW (0.003 W)		
Typical (DIPM Enable) ³	0.25 W		
Environmental			
Operating Temperature	0 to 70° C		
Non-operating Temperature	-40 to 85° C		
Power-on Ready ⁴	500 ms		
Resume from DEVSLP	100 ms		

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

2. UBER– Unrecovered Bit Error Rate

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

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

For more information, please visit
liteonssd.com

LITEON®

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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.