



CV1 Series Solid-State Drives | mSATA 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 CV1 mSATA Series Solid-State Drive with the mSATA 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 75,000 IOPS. With quick response times, a LITE-ON SSD will keep pace with your busy lifestyle.

Say good-bye to system boot-up or program wait times. Access your stored movies, games, photos and music with ease and speed. The LITE-ON CV1 mSATA 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 mSata interface, the CV1 mSATA fits easily into today's tablets and mobile devices. Operating more efficiently than traditional HDDs, the CV1 mSATA 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

- COMPACT FORM FACTOR
- RELIABILITY
- CUSTOMIZED FIRMWARE
- AVAILABLE IN 128/ 256/ 512 GB CAPACITIES
- FULL 3-YEAR WARRANTY

APPLICATION WORKLOADS

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

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Technical Specifications			
Model Name	CV1-MB128	CV1-MB256	CV1-MB512
Capacity	128 GB	256 GB	512 GB
Buffer	128MB DDR3	256MB DDR3	512MB DDR3
Read/Write Speed (Under Windows NTFS)			
Sequential Read Speed (SATA 6.0 Gb/s) ¹	Up to 520 MB/s	Up to 520 MB/s	Up to 520 MB/s
Sequential Write Speed (SATA 6.0 Gb/s) ¹	Up to 160 MB/s	Up to 320 MB/s	Up to 450 MB/s
Random Read Speed (IOPS 4KB) ¹	Up to 60,000	Up to 80,000	Up to 80,000
Random Write Speed (IOPS 4KB) ¹	Up to 34,000	Up to 68,000	Up to 75,000
Environment and Reliability			
DC Current	3.3 V		
Temperature	0°C ~ 70°C (Operating)		
Shock	1500G (Max), at 1 msec half-sine		
Vibration	7 ~ 800Hz, 1.63Grms (Operation)		
MTBF ²	>1,500,000 hours		
Warranty ³	3-year warranty		
Compatibility			
Operating System Supported	Microsoft Windows OS/ Linux OS		
Agency Approval	BBSMI/UL/TUV/C-Tick/CE/KCC/VCCI/FCC/ ROHS/CB		
Command Set Support	TRIM, S.M.A.R.T., NCQ		
DATA Encryption	Supports AES 256		
Interface	6 Gb/s (Backward Compatible to 1.5/3 Gb/s)		
Firmware Upgrade	Supported		
Form Factor and Connections			
Form Factor	JEDEC MO-300 mSATA SSD form factor		
Power Connector	3.3V mSATA connector for DC 3.3V input		
Data Connector	mSATA Connector		
Dimension and Weight			
Dimension (L/W/H)	50.8 x 29.85 x 3.7 mm / 3.2 x 0.87 x 0.15 in		
Weight	9 g (Max.)		
Package Contents			
Drive	128GB / 256GB / 512GB SSD		

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. Standard 3 year warranty

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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