



Lite-On SSDs Simplify Your Storage Solutions

Increase Datacenter Efficiency In Hyperscale Environments,
While Lowering Your Total Cost Of Ownership

FAST CONSISTENT PERFORMANCE

Lite-On's EP3 Series Enterprise Solid-State Drives with the NVMe M.2 PCIe 3D NAND interface are compact, power-efficient solid-state solutions that fit directly into the server's PCIe bus to increase server application performance while delivering fast and reliable access to data without burdening host CPU and memory resources. They deliver superior speed at 4KB random read performance of up to 290,000 IOPS and 4KB write performance of up to 26,000 IOPS. With ultra low latencies reaching up to 30/30 μ s, a Lite-On SSD ensures the quickest and most consistent command response times in the industry.

3D NAND TECHNOLOGY

Lite-On's EP3 is an addition to the enterprise SSD product portfolio. Utilizing the latest 3D NAND technology allows for greater density, increased performance, and lowers power consumption to meet today's increasing need for data center storage growth. The EP3 SSD is the ultimate solution for enterprise users.

END-TO-END DATA PROTECTION

Lite-On SSDs give you peace of mind. From the instant data is stored on a Lite-On SSD, its integrity is checked and rechecked on multiple points along the data path. This End-to-End Data Protection guards against corruption to ensure that data is error-free, so you can be worry free. Lite-On End-to-End Data Protection conforms to the industry standard of T10 DIFF to protect against silent bit error.

POWER LOSS PROTECTION

Power outages are a nightmare, but Lite-On reduces the loss of data from this universal problem by including a Power Loss Protection circuit within each of its solid-state drives. In the event of an unsafe power failure, this circuit enables the drive to save all cached data before shutting down.

HIGH ENDURANCE

By combining SSD NAND management techniques, NAND silicon enhancements, and the LDPC error correction, Lite-On EP2 Series SSDs achieve up to 1 Drive Write per Day (DWPD) over a 3 year drive life. For the EP2-KB960 960 GB SSD, that's equivalent to recording over 8 years of HD video over 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

- END TO END DATA PROTECTION
- RELIABLE CONSISTENCY
- ULTRA LOW LATENCIES
- POWER LOSS PROTECTION
- LOW POWER CONSUMPTION
- CUSTOMIZED FIRMWARE
- AVAILABLE IN 1920 GB CAPACITY

APPLICATION WORKLOADS

- ON-LINE TRANSACTION PROCESSING (OLTP)
- FINANCIAL TRANSACTIONS
- E-COMMERCE
- SQL LOGGING
- E-MAIL/MESSAGING SERVER



EP3 Series Enterprise Solid-State Drives | NVMe M.2 PCIe 3D NAND

Technical Specifications	
Model Name	EP3-KB1920
Capacity	1920 GB
Performance	
Sequential Read/Write ¹	2200/800 MB/s
4K Random Read/Write ¹	270K/35K IOPS
Latency Read/Write ¹	30/30 μ s
Compatibility	
Host Interface	NVMe PCIe Gen 3x4 3D NAND
Form Factor	M.2 22110: 110.0mm x 22.0mm x 4.0mm @ 18g Max
Reliability	
UBER ²	1 error in 10^{17} bits transferred
End-to-End Protection	Optional
Power Loss Protection	Supported
MTBF ³	2 million hours
Endurance	
DWPD ⁴	Up to 1 Drive Write per Day for 3 Years
Data Retention	1 Year Power-off Retention
Power Consumption	
Idle	< 2.4 watts
Active	< 8.25 watts
Environment	
Operating Temperature	0 to 70° C
Non-operating Temperature	-40 to 85° C

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. 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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