

Simplify your Storage Solutions



EP1 Series Enterprise Solid-State Drives M.2 PCIe

DESIGNED TO SOLVE TODAY'S ENTERPRISE STORAGE CHALLENGES
AND ADDRESS THE LIMITATIONS HARD DRIVE TECHNOLOGY
IMPOSES ON IT INFRASTRUCTURES.

FEATURES

- Reliable Consistency
- Ultra Low Latencies
- Power Loss Protection
- Multiple Layers of data protection
- Customized Firmware
- Available in 480 and 960 GB capacities

APPLICATION WORKLOADS

- On-Line Transaction Processing (OLTP)
- Financial Transactions
- E-Commerce
- SQL Logging
- Collaboration
- E-Mail/Messaging Server

FAST CONSISTENT PERFORMANCE

LiteOn's EP1 Series Enterprise Solid-State Drives with the M.2 PCIe 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 150,000 IOPS and 4KB write performance of up to 44,000 IOPS. With ultra low latencies reaching up to 40/30 μ s, a LiteOn SSD ensures the quickest and most consistent command response times in the industry.

END-TO-END DATA PROTECTION

LiteOn SSDs give you peace of mind. From the instant data is stored on a LiteOn 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.

POWER LOSS PROTECTION

Power outages are a nightmare, but LiteOn 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.

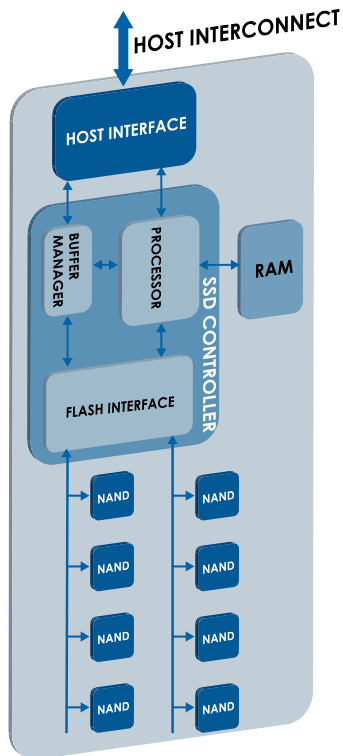
HIGH ENDURANCE

By combining SSD NAND management techniques and NAND silicon enhancements, LiteOn EP1 Series SSDs achieve 1 Drive Write per Day (DWPD) over a 3 year drive life. For the EP1-GB960 960GB 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. LiteOn SSDs are already an industry-leading product, and with LiteOn's customized proprietary firmware, your LiteOn SSD will provide superior performance at consistent speeds for years to come.

SOLID-STATE DRIVE COMPONENTS



Technical Specifications		
Model Name	EPI-GB480	EPI-GB9600
Capacity	480 GB	960 GB
Performance		
Sequential Read/Write ¹	1500/640 MB/s	1500/1200 MB/s
4K Random Read/Write ¹	150K/44K IOPS	150K/44K IOPS
Latency Read/Write ¹	40/30 μs	40/30 μs
Compatibility		
Host Interface	PCIe Gen 2x4	
Form Factor	M.2 2280: 80.0mm x 22.0mm x 3.65mm @ 13g Max	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	Supported	
Power Loss Protection	Supported	
MTBF ³	2 million hours	
Endurance		
DWPD	Up to 1 Drive Write per Day for 3 Years	
Data Retention	1 Year Power-off Retention	
Power Consumption		
Idle	1.2 watts	1.5 watts
Active	TBD	
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

For more information, please visit
liteonssd.com

LITEON
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LiteOn Storage is a Strategic Business Group of LiteOn Technology Corporation.

LiteOn Storage is a global leader in the design, development, and manufacturing of Solid State Drives (SSDs) and Optical Disc Drives (ODDs). LiteOn SSDs are designed and developed 100% in-house by LiteOn at their state-of-the-art facilities in Taiwan.

By leveraging partnerships with industry-leading components manufacturers, LiteOn Storage is able to offer customized solutions and superior firmware to a wide range of industries. LiteOn Storage SBG offers an extensive line of SSDs and embedded flash products for PC Client, Industrial Solutions, Automotive, Enterprise, and Cloud Computing, accommodating a variety of interfaces and form factors.

Specifications and data are subject to change without notice.