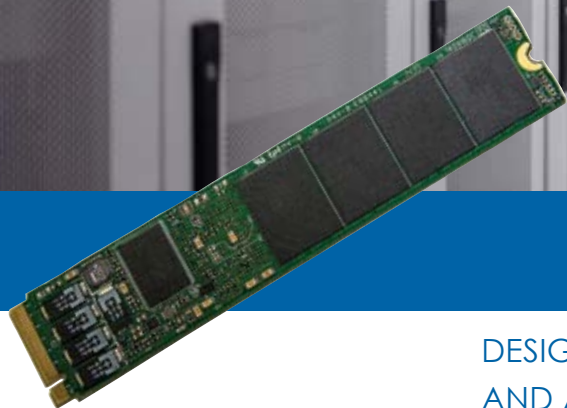


# Simplify your Storage Solutions



## 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

Lite-On'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 110,000 IOPS and 4KB write performance of up to 25,000 IOPS. With ultra low latencies reaching up to 40/30  $\mu$ s, a Lite-On SSD ensures the quickest and most consistent command response times in the industry.

### 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.

### 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.

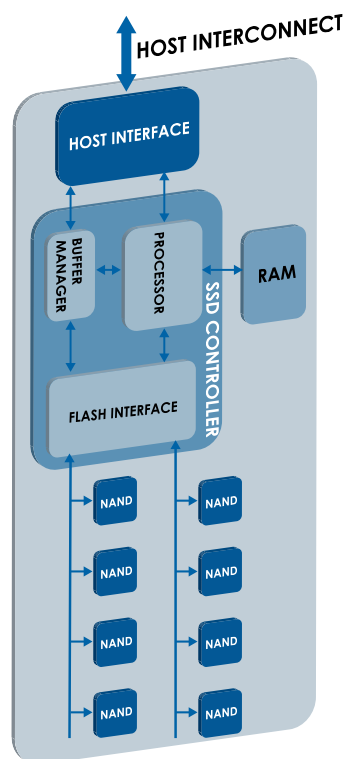
### HIGH ENDURANCE

By combining SSD NAND management techniques and NAND silicon enhancements, Lite-On EP1 Series SSDs achieve up to 1 Drive Write per Day (DWPD) over a 3 year drive life. For the EP1-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.

## SOLID-STATE DRIVE COMPONENTS



| Technical Specifications           |  |   |
|------------------------------------|--|---|
| Model Name                         | EPI-KB480  | EPI-KB960   |
| Capacity                           | 480 GB   | 960 GB  |
| Performance                        |  |   |
| Sequential Read/Write <sup>1</sup> | 1200/700 MB/s                                      |   |
| 4K Random Read/Write <sup>1</sup>  | 110K/25K IOPS                                      |   |
| Latency Read/Write <sup>1</sup>    | 40/30 $\mu$ s                                      |   |
| Compatibility                      |  |   |
| Host Interface                     | PCIe Gen 2x4                                       |   |
| Form Factor                        | M.2 2280:<br>80.0mm x 22.0mm x 3.65mm<br>@ 13g Max | M.2 22110:<br>110.0mm x 22.0mm x 4.0mm<br>@ 18g Max |
| Reliability                        |  |   |
| UBER <sup>2</sup>                  | 1 error in $10^{17}$ bits transferred              |   |
| End-to-End Protection              | Supported  |   |
| Power Loss Protection              | Supported  |   |
| MTBF <sup>3</sup>                  | 2 million hours                                    |   |
| Endurance                          |  |   |
| DWPD <sup>4</sup>                  | Up to 1 Drive Write per Day for 3 Years            |   |
| Data Retention                     | 1 Year Power-off Retention                         |   |
| Power Consumption                  |  |   |
| Idle                               | < 2 watts  |   |
| Active                             | < 8 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](http://liteonssd.com)

**LITEON**  
Simplify your Storage Solutions

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Lite-On Storage is a Strategic Business Group 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 SSDs are designed and developed 100% in-house by Lite-On at their state-of-the-art facilities in Taiwan.

By leveraging partnerships with industry-leading components manufacturers, Lite-On Storage is able to offer customized solutions and superior firmware to a wide range of industries. Lite-On 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.