



# Simplify your Storage Solutions

## N9S Series Enterprise Solid-State Drives SATA 6 Gb/s

THE BUDGET-FRIENDLY SOLUTION TO ENTERPRISE STORAGE CHALLENGES THAT ADDRESSES THE LIMITATIONS HARD DRIVE TECHNOLOGY IMPOSES ON IT INFRASTRUCTURES.

### FEATURES

Cost Effective  
Reliable Consistency  
Low Latency  
Power Loss Protection  
Multiple Layers of data protection  
Customized Firmware  
TCG-OPAL Support  
Available in 1.8"/ 2.5"/  
M.2 2280 form factors

### APPLICATION WORKLOADS

Video on Demand  
Media Streaming  
Cloud File Servers  
Data Warehouses

### FAST CONSISTENT PERFORMANCE

Lite-On's N9S Series Enterprise Solid-State Drives deliver superior speed at an affordable cost with 4K random read performance of up to 75,000 IOPS and 4KB write performance of up to 11,000 IOPS. With latencies reaching only 65/70  $\mu$ s, a Lite-On SSD ensures the quickest and most consistent command response times in the industry. Lite-On's N9S Series SSDs offer exceptional performance with low active power consumption (5 watts).

### 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 offering a Power Loss Protection circuit option 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.

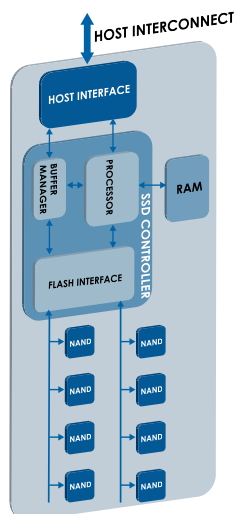
### HIGH ENDURANCE

By combining SSD NAND management techniques and NAND silicon enhancements, Lite-On N9S Series SSDs achieve 1 Drive Write per Day (DWPD) over a 3 year drive life. For the ECT-1920N9S 1920GB that's equivalent to recording over 15 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	ECT-60N9S	ECT-120N9S	ECT-480N9S	ECT-960N9S	ECT-1920N9S
Capacity	60 GB	120 GB	480 GB	960 GB	1920 GB
Performance					
Sequential Read/Write <sup>1</sup>	400/130 MB/s	400/250 MB/s	480/400 MB/s	480/400 MB/s	480/400 MB/s
4K Random Read/Write <sup>1</sup>	50K/4.5K IOPS	60K/8K IOPS	70K/11K IOPS	75K/10K IOPS	54K/7K IOPS
Latency Read/Write <sup>1</sup>	65/70 $\mu$ s				
Compatibility					
Host Interface	6 Gb/s (Backward Compatible to 1.5/3 Gb/s)				
	2.5" (100 mm x 69.85 mm x 6.8 mm) @ 75g max				
Form Factor	1.8" (78.5mm x 54mm x 5mm) @ 50g max			N/A	
	M.2 2280			N/A	
Reliability					
UBER <sup>2</sup>	1 error in 10 <sup>17</sup> 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	1.2 watts				
Active	5 watts				
Environment					
Operating Temperature	0 to 70° C				
Non-operating Temperature	-40 to 85° C				
Power-on Ready	<15 sec		<20 sec	<40 sec	

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 level

4. Standard 3 year warranty

For more information, please visit  
[liteonssd.com](http://liteonssd.com)

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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.



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