

# ExaDrive<sup>®</sup> NL

## Highlights

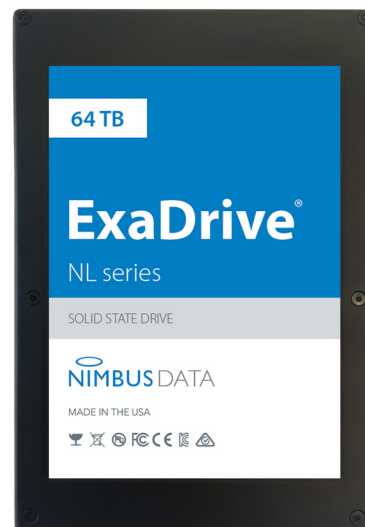
- 64 TB, 32 TB and 16 TB QLC flash SSD
- SATA-3 6.0 Gbps interface
- 3.5" industry standard form factor
- 0.2 to 0.6 DWPD for 5 years (depending on workload)
- 7W/15W power consumption (idle/active)
- Enables up to 1.44 PB raw flash per rack U
- Up to 500/460 MBps reads/writes

## Advantages

- World's highest capacity QLC flash SSD
- World's only enterprise SAS QLC flash SSD
- Superior reliability over mechanical HDDs
- 95% lower data access latency than HDDs
- Up to 7.5 higher density than NVMe SSDs
- 76% lower power usage per TB than NVMe SSDs
- Plug-and-play with existing 3.5" HDD slots

## Applications & Workloads

- Unstructured data
- Object storage
- Digital imaging and media
- Technical computing
- Data mobility for edge storage



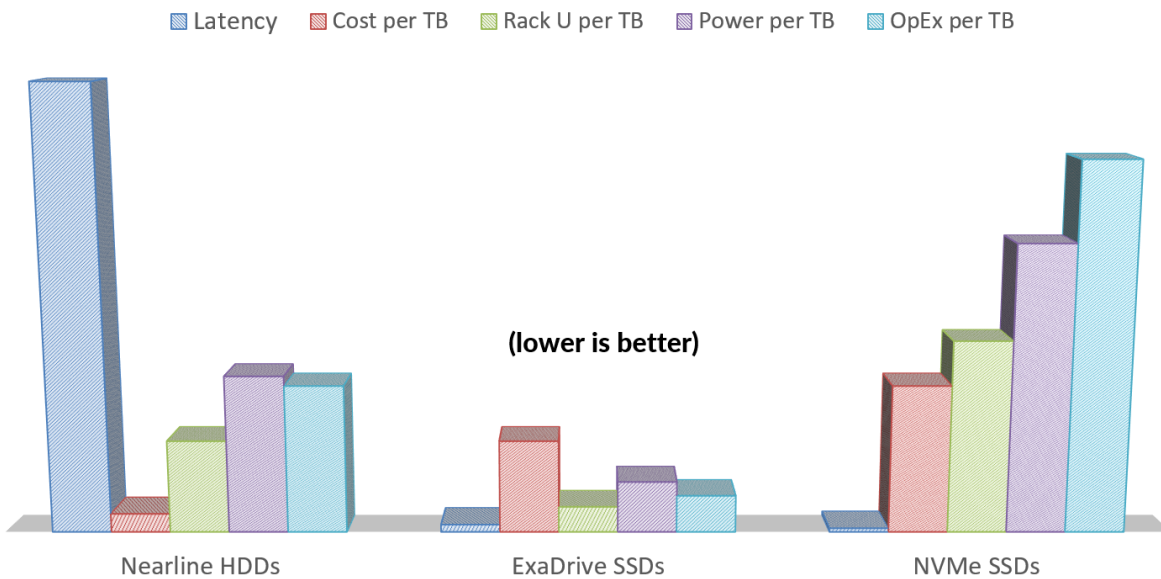
## The #1 Enterprise QLC Flash SSD

With industry-leading capacity up to 64 TB in a single SSD, ExaDrive NL helps organizations eliminate server sprawl, reduce software licensing costs, improve efficiency, and reduce data center operating costs by up to 75%. Available in a 3.5 inch form factor just like enterprise hard drives, ExaDrive NL is plug-and-play compatible with virtually any 3.5 inch HDD slot. While other QLC flash SSDs cannot match the capacity of the latest hard drives, ExaDrive NL is available in 16 TB, 32 TB, and 64 TB sizes, easily eclipsing all HDDs and QLC flash SSDs on the market. This makes transitioning to flash more affordable than ever before, enabling organizations to increase capacity and reduce OpEx while preserving their existing servers, racks, power, and cooling equipment.

ExaDrive NL offers SATA for compatibility with high-density enterprise servers. Unlike NVMe SSDs, ExaDrive NL simplifies tiered and hybrid storage by allowing users to mix hard drives and SSDs in the same enclosure effortlessly. At less than one pound, ExaDrive NL offers the capacity of a full data storage array in a device small enough to fit in your back pocket, making it well-suited to autonomous vehicles, aircraft, mobile systems, 5G infrastructure, e-discovery, and cloud data transport appliances. ExaDrive NL is qualified with servers from major vendors, including Dell EMC, HPE, Lenovo, Cisco, and Supermicro.

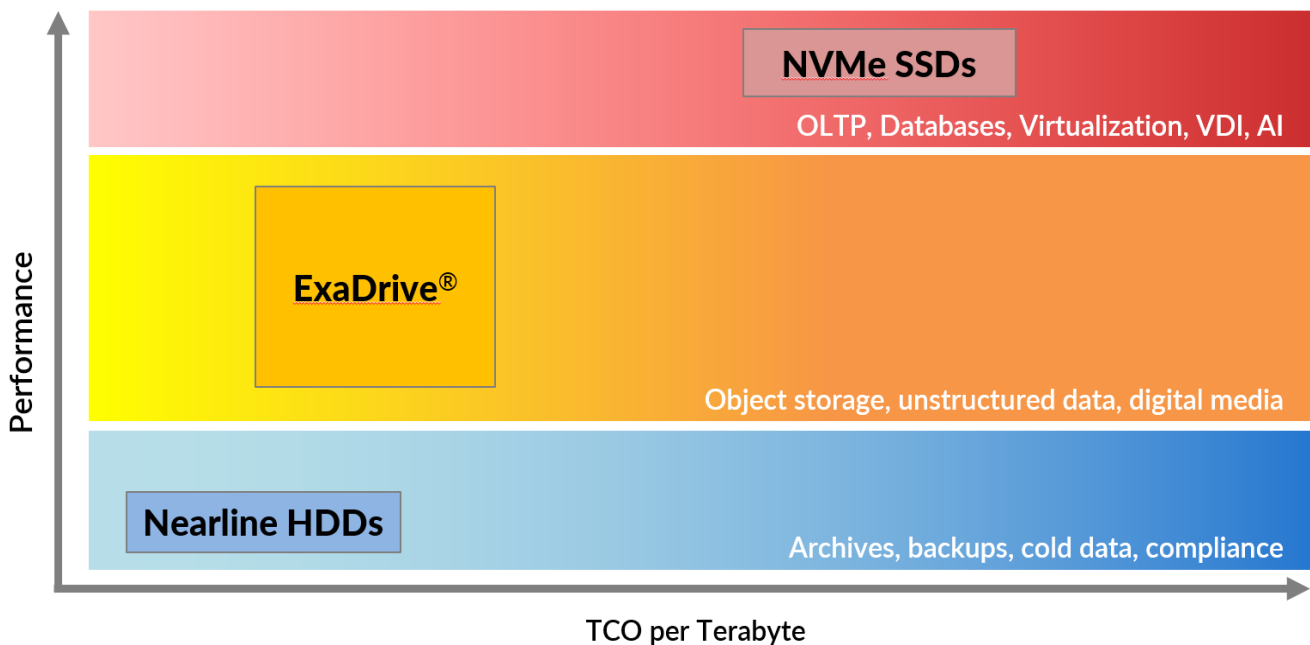
## Why ExaDrive NL?

ExaDrive NL offers a unique balance of capacity, performance, energy efficiency, and value. ExaDrive SSDs offer more capacity, better performance, lower power consumption, and better reliability than nearline HDDs. While NVMe SSDs are faster, they use substantially more power, offer less capacity, and have higher OpEx costs. ExaDrive strikes the ideal balance between nearline HDDs and NVMe SSDs, offering an ideal solution for unstructured data.



## Where to Use ExaDrive NL?

With their high capacity, low OpEx, and balanced performance, ExaDrive SSDs are ideally suited to unstructured data and content workloads, where slow HDDs are no longer adequate and NVMe SSDs are too small and costly.



## ExaDrive NL - Specifications

	EDNLT016	EDNLT032	EDNLT064
<b>Basics</b>			
Capacity	16 TB	32 TB	64 TB
Interface	SATA-3 (6.0 Gbps)		
Form Factor	3.5" (LFF)		
<b>Reliability</b>			
Endurance	0.2 to 0.6 DWPD for 5 years, depending on the IO block size of the workload		
MTBF (hours)	2.5 million hours		
Limited Warranty	5 years		
<b>Performance</b>			
Latency	0.1 ms	0.1 ms	0.1 ms
Random Read (4 KB)	97K IOPs	97K IOPs	114K IOPs
Random Write (4 KB)	91K IOPs	91K IOPs	105K IOPs
Sequential Read	500 MBps	500 MBps	500 MBps
Sequential Write	460 MBps	460 MBps	460 MBps
<b>Power</b>			
Active Read Power	10.1 W	13.2 W	14.9 W
Active Write Power	11.1 W	13.8 W	15.4 W
Idle Power	7.0 W	9.6 W	10.7 W
Active Read Power / TB	0.63 W	0.41 W	0.23 W
Active Write Power / TB	0.69 W	0.43 W	0.24 W
Idle Power / TB	0.44 W	0.30 W	0.17 W
<b>Additional Details</b>			
Temperature (operating)	0 - 60 degrees C		
Size (L x W x H)	147.0 mm x 101.8 mm x 26.1 mm		
Weight	382 grams (0.84 lb)	440 grams (0.97 lb)	533 grams (1.18 lb)

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