

Lightbits Labs™ SuperSSD™ Storage Solution

Data management is at the center of innovation for organizations of all sizes, but conventional storage is expensive and complicated to scale and can adversely impact an organization's ability to meet its business needs.

Lightbits Labs™ SuperSSD™ is the industry's leading storage solution that is scalable for both performance and capacity and can be deployed using existing network infrastructure, reducing time and cost of deployment.



Rethink how you invest in infrastructure. Now that Lightbits SuperSSD is available, you no longer need to make big-ticket purchases for integrated and turn-key systems that require high-end network connectivity or pay for a subscription model that adds up to significant investments over time.

Lightbits SuperSSD is that building block. It virtualizes and manages large pools of NVMe SSDs with market-leading Global Flash Translation Layer (GFTL) to provide consistent low latency, efficient storage utilization, and scalability.

Customers deploy Lightbits SuperSSD with a modest capacity per individual node or as a scalable clustered storage solution and then add as their needs grow. It is ideal for cloud-native applications where infrastructure can be incrementally expanded and upgraded over time with no disruption.

SuperSSD Key Features

Ethernet-Based Target Only Solution

- Ethernet-based TCP
- Compatible with standard network and compute infrastructure

Fault-Tolerant

- Multi-Node cluster with replication
- Node Level and Cluster Level Resilient
- Elastic Erasure Coding (EC) isolates SSD failures and ensures nodes uptime

Scalable Capacity

- Capacity scales up with SSD density
- Support for up to 24 SSDs in 2U (192TB raw capacity with 8TB SSDs)

High Performance

- Optimized E2E for low latency and high IOPS
- 200Gbps bandwidth SSDs storage
- Up to 5M IOPS (4K random)

Wire Speed Storage Level Services

- Designed for multi-tenancy workloads deployment
- Thin provisioning for best utilization of the storage resources
- Data compression and decompression

Simple Management Optimized

- RESTful API provides a standard HTTPS interface for data center management system
- CLI support for operations using script automation and monitoring

Simple and Flexible

- Deploy as independent nodes or clustered solution
- Ethernet-based connectivity
- Flexibility enabled by simply connecting an Ethernet cable

SuperSSD Benefits



Composable: Simple
Scaling and Deployments



Fast Application
Deployment and Load Balancing



Improved Utilization
and TCO

SuperSSD Applications



Visual Effects and Video
Processing



Latency and
Performance Sensitive
Database



Latency Sensitive
High Transaction
Workloads



Cloud Services
IaaS, PaaS, SaaS

SuperSSD Configurations

Platform	Lightbits SuperSSD™
Server Configuration	Dell R740xd, 2U 24 NVMe
CPU	Intel Xeon
Capacity Options	32TB (8x 4TB) up to 192TB (24x 8TB)
SSD Storage	Micron 9300 3.8 4TB or 7.68TB NVMe
Connectivity	Dual 100 Gbit Ethernet
Protocol	NVMe™/TCP



Available through
Lightbits Labs or Dell.
For further info contact:
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About Lightbits Labs™

Lightbits Labs, founded in 2016, is remaking modern cloud infrastructure on a global scale. The company's mission is to reinvent the way storage and networking are conducted in cloud data centers. As trailblazers in this field, its solutions are successfully being used in industry-leading cloud data centers around the globe. With strategic investors including Dell Technologies Capital, Cisco Investments, and Micron, Lightbits Labs is disaggregating storage and compute to improve clients' performance and latency.

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