

# Lightbits Labs SuperSSD™

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 large investments over time.



Machine Learning and modern web applications rapid advancements need infrastructure building blocks that are deployable when needed without costing a fortune. Lightbits SuperSSD is that building block. It virtualizes and manages large sets of NVMe SSDs with market leading Global Flash Translation Layer (GFTL) to provide low latency, efficient storage utilization, and scalability.

Customers deploy Lightbits SuperSSD with a modest capacity implementation and then quickly add storage SSDs to the virtual pool as their needs expand.

## SuperSSD Key Features

### Ethernet Based Target Only Solution

- Ethernet-based TCP or RoCE
- Compatible with standard widely available hardware

### Scalable Capacity

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

### High Performance

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

### Fault Tolerant

- Elastic Erasure Coding (EC) isolates SSD failures and ensures continued services

### Wire Speed Storage Level Services

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

### Cloud Management Optimized

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

### Simple and Flexible

- Ethernet-based connectivity
- Flexibility enabled with as simple as connecting an Ethernet cable

