



lightbits  
NVMe™ Over TCP

World's densest  
NVMe / TCP  
Block Storage

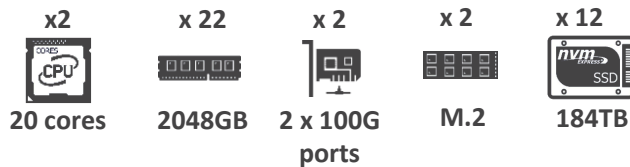


## LightOS® HS

a Hyperscalers appliance

Hyperscale NVMe™  
over 100G TCP storage

184TB | 2.5M IOPS | 1RU



- ✓ Disaggregated NVMe over TCP Block Storage
- ✓ 184TB | 2.5M IOPS (4k read) per 1RU
- ✓ Deploy at the edge
- ✓ Hyperscale NVMe cloud storage
- ✓ Scale 2.2PB NVMe clusters in 12RU
- ✓ Assures data availability
- ✓ Protects against data loss

## LightOS® HS Appliance

Hyperscalers together with the Lightbits team, who were key contributors to the NVMe standard & among the originators of NVMe over Fabrics (NVMe-oF), bring you **LightOS® HS**: World's densest NVMe™ over TCP storage appliance extensively tested and validated on the S5B 1U storage server.

The **LightOS® HS** appliance enables our partners inc. service providers & OEM with everything they need to deploy performance NVMe Block storage as a SAN logical volume on demand and 'out of the box'

The **LightOS® HS** appliance unlocks the full potential of disaggregated storage making it ideal for Tier 1 and 0 workloads: Cassandra, Mongo DB, MySQL, VM, OpenStack, Kubernetes containers and AI.



about  lightbits

Lightbits Labs, founded in 2016, is re-inventing modern cloud infrastructure on a global scale. The company's mission is to re-invent the way storage and networking are conducted in cloud data centers. Lightbits is disaggregating storage and compute to improve clients' infrastructure flexibility and efficiency at scale. [www.lightbitlabs.com](http://www.lightbitlabs.com) | [info@lightbitlabs.com](mailto:info@lightbitlabs.com)



Micron  
9300 MAX



Mellanox CX5

TB **15.6** IOPS **850k** Write **3.5GB/s** Endurance **33.6 PB**  
4k read sequential written 5Y

Speed **100GbE** Connect **QSFP28+**

## 100G TCP Upgrade Option



Ports **64 x 100G**  
QSFP28+

Switch Capacity **12.8 Tb/s**

Forwarding Rate **>250Bpps**

## Highest Quality Levels

Manufactured using only the highest quality components and commodities the **LightOS® HS** appliance offers higher: Storage capacity, Mean Time Between Failure MTBF, endurance & performance.

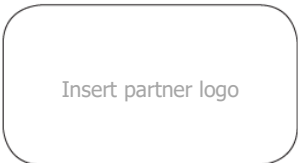
## Assure Data Availability at Scale

LightOS is the first NVMe/TCP storage solution that protects against data loss and avoids service interruptions at scale. In the presence of server, storage, or network failures, LightOS maximizes operational efficiency, ensuring applications continue working in the presence of failures, and failover is handled automatically, keeping data fully consistent and available.

## Hyperscale economics

**LightOS® HS** appliance is readily available via our partners under either buy, rent, lease models.

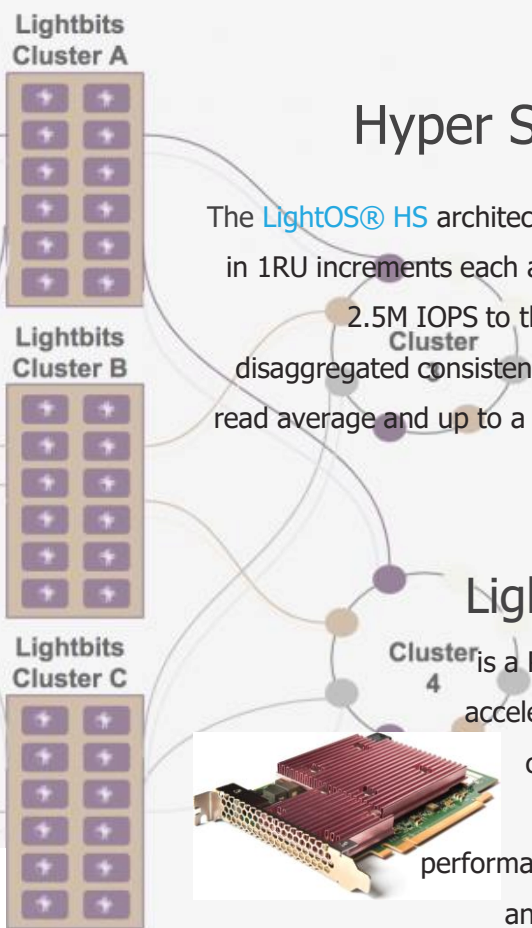
Authorised  
Hyperscalers  
Partner



### About Hyperscalers

Hyperscalers is the world's first open Original Equipment Manufacturer offering proprietary-free alternative to traditional Tier 1 OEM vendors.

Hereto to solve Information technology's complexity, Hyperscalers developed the IP Appliance Design Process. Which is basically a process along with a utility, being the Appliance Optimizer Utility, which together, assists service providers 'productize' delivery of their Digital-IP.



## Hyper Scalable

The **LightOS® HS** architecture is scalable in 1RU increments each adding 184TB | 2.5M IOPS to the cluster. This disaggregated consistently ensures low read average and up to a 50% reduction in tail latency

## LightField™

is a PCIe hardware acceleration add-in-card (AIC) that enhances the performance, efficiency and utilization of storage resources.



### Technology Partners



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