

SDS Hybrid Series

Evolooop Storage Solutions



KEY FEATURES

- Preconfigured Triple Parity RAID
- Hot spare drive included
- Inline compression + dedupe
- Online capacity expansion
- Thin and thick provisioning
- Workload profiles
- Unlimited snapshots
- Graphical reporting
- All-Inclusive Feature Licensing

SIMPLIFY IT OPERATIONS

- Turnkey storage solution that can serve data in minutes out of the box.
- Built-in intelligence to eliminate dozens of time-consuming tasks and decision points.
- Unify data services across SAN and NAS environments, both on the premises and in the cloud.

VIRTUALIZATION

- VMware
- KVM
- Citrix XenServer
- Microsoft Hyper-V

NETWORKING

- 10 GbE up to 100 GbE
- Jumbo frames
- IEEE 802.1q VLAN support

DISK MANAGEMENT

- Global hot spare
- Hot swappable drives
- Bad block scan + HDD S.M.A.R.T.
- Enclosure monitoring and alert LEDs
- Hard Drive Activity/Alert LEDs
- Hardware-Accelerated Disk Encryption (AES-NI)

Evolooop Hybrid arrays combine unified storage flexibility, solid-state flash drives performance and hard disks capacity. Our solution comes with a powerful web-based management console and white-glove enterprise support.

It has the ability to accommodate application, multi-protocol network and multi-format storage diversity (virtual volumes and traditional files) within a single 2U appliance. That provides business-enabled flexibility and helps IT simplify and consolidate their infrastructure.

Evolooop Hybrid storage solutions are designed to support high-performance and always-on data reduction.

All performance benchmarks are taken with data reduction feature on.

Performance Optimized

Solid-state performance at spinning-disk capacity and cost.

Evolooop leverages storage to merge multi-layer DRAM and flash cache with high-density spinning disks: system RAM and NVMe SSDs are used to cache reads and writes while SAS HDDs store the data.

The performance of RAM and SSDs are orders of magnitude faster than HDDs, while their power requirements are much lower.

Evolooop Hybrid storage lets you increase performance and scale capacity while conserving power and saving money.

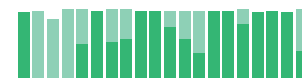
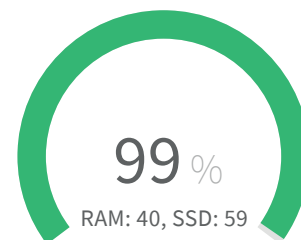
Data Reduction

Deduplication and compression are 100% inline and always on, thanks to dual Intel Xeon Scalable Processors acceleration.

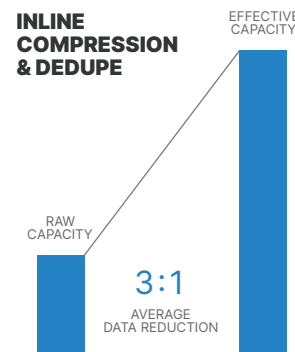
Evolooop Hybrid arrays provide an average 3:1 data reduction with no performance loss.

Evolooop Hybrid storage supports multiple compression algorithms to achieve optimal data reduction with different kinds of data.

MULTI-LAYER CACHING RAM & NVMe SSD



INLINE COMPRESSION & DEDUPE



Eternal Storage

Thanks to Triple Parity RAID our solution tolerates three simultaneous drive failures. Moreover, a Global Hot Spare drive adds additional data-loss protection.

Write-back cache mirrors all data between two NVMe SSDs.

The cardinal rule for enterprise storage systems is to never compromise when it comes to data integrity and resilience.

TRIPLE PARITY RAID & GLOBAL HOT SPARE



Graphical Dashboard

Evolooop Hybrid storage can be controlled and monitored with single pane view on all events, alerts and statistics via a graphical HTML5-based dashboard.

SIMPLIFIED CONTROL & MONITORING



Physical Parameters

Rack space: 2U

Dimensions (length x width x height):
28.46 x 17.2 x 3.5 " - 723 x 437 x 89 mm
Fully-loaded weight: 60 lbs - 27,2 kg

Rackmount rails: included



SDS Hybrid Series

H2040

H2080

H2160

Rack Space	2U		
Redundant Power Supplies	Yes		
CPU	2x Intel Xeon Scalable 2nd gen.		
RAM	128 GB	192 GB	256 GB
Network	4x 10 GbE RJ45		
Network (option)	25 GbE – 40 GbE – 100 GbE		
HDD	12x 4 TB SAS3 12Gb/s	12x 8 TB SAS3 12Gb/s	12x 16 TB SAS3 12Gb/s
	min 8 TB	16 TB	32 TB
Storage License	max 32 TB	64 TB	128 TB
	Average Data Reduction**	3:1	
Average Effective Capacity	min 24 TB	48 TB	96 TB
	max 96 TB	192 TB	384 TB
Read Cache NVMe SSD	200 GB	300 GB	400 GB
Write Cache NVMe SSD	80 GB RAID 1	100 GB RAID 1	120 GB RAID 1
Performance	Up to 260,000 IOPS. Based on specific workload.		
Triple Parity RAID	Yes		
Global Hot Spare	Yes		
Inline Compression	Yes		
Inline Deduplication	Yes		
Unlimited Snapshot	Yes		
Thin & Thick Provisioning	Yes		
Storage Protocols	iSCSI, NFS		
All-Inclusive Feature Licensing	Yes		

* All capacities are expressed in Base 10: 1 MB = 1,000,000 bytes.

** Average data reduction ratios are based on capacity savings from data deduplication and data compression. Actual data reduction ratios can vary and depend on individual environments and data structures.