

# SnapSAN S5000

## Fully Equipped to Power Your Business

The SnapSAN S5000 modular storage array is an ideal platform for providing non-stop storage services for even the most demanding applications. Designed for high availability and performance, the SnapSAN S5000 combines advanced data protection features and proven reliability with flexible connectivity to ensure that it will integrate into any storage environment. Primed for the next generation of SAN challenges, it packs technology features targeting virtualization deployments, I/O intensive applications, compliance data center needs and beyond. With the new SnapSAN S5000 solution, Overland Storage puts the ease, efficiency and advanced features back into your networked storage.

<b>FEATURES</b>		<b>Thin Provisioning</b> Over-provisioning that allows for pay-as-you grow storage model		<b>Volume Cloning</b> Create a volume duplicate for backup or application testing		<b>Replication</b> Synchronous and Asynchronous Replication for maximum data protection		<b>AutoCache</b> SSD caching option to enhance overall system performance		<b>AutoTune</b> Tuning tool for optimizing performance		<b>AutoTier</b> Policy-based data tiering		<b>Compliance</b> Meet regulatory requirements with policy-based WORM technology
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### Reliable

The SnapSAN S5000 delivers all the reliability features needed for an Enterprise storage solution. With RAID protection levels 0, 1, 5, 6, 10, 50, and 60 you are sure to find a data protection scheme with the right performance and protection characteristics for your deployment. The Active-Active controllers utilize battery backed cache as well as on-board non-volatile flash memory for added data protection. Advanced drive and RAID error detection technology eliminates data corruption and unnecessary drive failures.

### Efficient

Stocked with energy efficient Processors and Power Supplies, the SnapSAN S5000 provides an eco-friendly storage platform. Add the drive spin down feature and support for energy and space conserving 2.5" disk drives and you have a solution that not only saves on power but also on rack space.

### Scalable

Thin Provisioning can create a pay-as-you-grow model where you are able to provision your storage for future growth and purchase the physical disk capacity when needed without any costly down time. Simply expand RAID sets and storage when you need it with online RAID expansion and online LUN expansion to keep up with growing capacity needs. With current drive capacities the SnapSAN S5000 can scale to a massive 288TB with 96 3.5" drives or 144TB with 144 2.5" drives.

### Flexible

With controller options of 1GbE or 10GbE iSCSI, 8Gb FC or 6Gb SAS you have the flexibility to build out your storage infrastructure as you see fit to meet the needs of your application and operating environment. You will be able to mix-and-match drive types within the same chassis as well as different drive chassis form factors giving you the ability to have different tiers in the same consolidated storage system. You will also enjoy flexible management options via a web browser, a Command Line Interface (CLI) or utilizing the intuitive multi-array management application to manage your Overland SnapSAN arrays.

### Fast

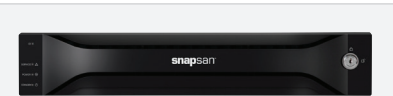
Supporting high performance SAS drives as well as the option for Solid State Drives (SSDs) you will be able to configure your SnapSAN S5000 to support your I/O intensive or HPC applications with ease. Utilizing many spindles with the space efficient and performance oriented 2.5" drives will further maximize your storage performance. The SnapSAN S5000 can further increase the performance for all data residing on spinning disks by leveraging advanced SSD caching technology thus enhancing the performance for the entire system.

### Protected

As both your business and your data center grow, it's critical to protect your company's most valuable digital assets. With enterprise-grade performance features like advanced RAID levels, Remote Replication, Snapshots, Volume Cloning and the Encrypted drive option, you can be rest assured that your data is safe and ready whenever you need it. That protection goes even further with additional onboard, non-volatile flash – beyond what traditional battery backed cache can offer. Advanced drive failure detection techniques allow you to easily recover from bad data blocks online and prevent false drive inefficiencies. The SnapSAN S5000 also allows you to further protect data utilizing WORM (Write-Once-Read-Many) for those environments that must deploy storage that adheres to strict compliance guidelines. WORM volumes are capable of being protected against any intentional or unintentional changes to data.

### Automatically Tiered

In today's enterprise it is critical that your data is properly provisioned to maximize performance and keep your business running smoothly. With simultaneous support for high performance SAS, Nearline SAS and SSDs the SnapSAN S5000 can continually monitor your storage performance and can automatically re-provision data based on policies you set.



### Highlights

- **Scalability** – Thin Provisioning, online RAID expansion
- **Enhanced Performance** – SSD Caching increases all disk performance
- **Data Tiering** – Automated monitoring and tiering of data
- **Drive Support** – NearLine SAS, SAS and SSD with both 2.5" and 3.5" drives
- **Protection** – Dual Controllers, Volume Cloning, Remote Replication, RAID, WORM, and Snapshots
- **Security** – Encrypted drive options protect against theft

### Best fit for

- **Virtualization** – VMware vCenter plugin and VMware API support; Certified for VMware, Microsoft Hyper-V and Citrix XenServer; Perfect for Virtual Desktop deployments and high performance Virtualization.
- **Database and Email** – High performance caching option; High availability with redundant components; Protected with Cloning and Remote Replication.
- **Compliance** – WORM protection feature; Remote Replication and Volume Cloning to keep as many copies of data as needed for regulatory compliance.

## Specifications

	1GbE iSCSI	10GbE iSCSI	8Gb FC	6Gb SAS	Combo Controller (8Gb FC and 1GbE iSCSI)
<b>Controller Host Connectivity</b>	2 ports/controller	2 ports/controller	4 ports/controller	4 ports/controller	2 FC + 2 iSCSI/controller
<b>Controller Cache</b>	8GB/controller				
<b>Form Factor</b>	2U 12-drive (3.5"); 2U 24-drive (2.5")				
<b>Max. No. of Hard Drives</b>	96 – 3.5" drives; 144 – 2.5" drives				
<b>Scalability</b>	Up to 288TB				
<b>Network Interface</b>	1GbE/10GbE iSCSI, 8Gb FC, 6Gb SAS, Combo				
<b>Drive Types</b>	SSD, SAS, NearLine SAS, Encrypted SAS				
<b>RAID Levels</b>	0, 1, 5, 6, 10, 50, 60				
<b>High Availability</b>	Single and dual controllers, hot-swappable power and drives				
<b>Standard Features</b>	Thin Provisioning, Volume Cloning, Replication, Snapshots, Drive Spin-Down				
<b>Advanced Features</b>	AutoCache, AutoTune, AutoTier, Compliance (WORM)				
<b>HDD - 3.5" SAS</b>	300GB, 600GB (15000RPM)				
<b>HDD - 3.5" NL-SAS</b>	1TB, 2TB, 3TB (7200RPM)				
<b>HDD - 3.5" SAS Self-encrypting</b>	600GB (15000RPM)				
<b>HDD - 3.5" SSD</b>	200GB, 400GB (Enterprise MLC)				
<b>HDD - 2.5" SAS</b>	300GB, 600GB, 900GB (10000RPM)				
<b>HDD - 2.5" NL-SAS</b>	1TB (7200RPM)				
<b>HDD - 2.5" SAS Self-encrypting</b>	600GB (10000RPM)				
<b>HDD - 2.5" SSD</b>	200GB, 400GB (Enterprise MLC)				
<b>Physical/Mounting</b>	Width: 18.9 in (482 mm), Height: 3.5 in (87.8 mm) 2U, Depth: 20.2 in (513.2 mm), Weight: 72.8 lbs (3.5" HDDs full)				
<b>Environmental Limits</b>	Operating: 5 to 40°C, 10-80%; Stop: -10 to +60°C, 5-80%				
<b>Included with Unit</b>	Rack Mount Kit, Quick Start Guide, Software CD (User Guide, Setup Guide, Installation Guide)				
<b>Warranty</b>	OverlandCare Level 1: 3-year: 24x7 Telephone Support, Advanced parts replacement, 2 business day delivery. For full details of all our service programs, please contact your preferred authorized reseller or contact Overland Storage directly at +1 (858) 571-5555.				



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