



SnapServer® Expansion S50

Modular Expansion for Scalable SnapServer® Network Attached Storage

Besides its people, a company's data is one of its most critical assets. Keeping that data stored, accessible and secure has become complex and expensive as companies are faced with massive data growth, increasingly stringent regulatory requirements and distributed environments that can range from across-the-hall to across-the-globe. SnapServer® Expansion S50 provides cost-effective, flexible expansion for scalable SnapServer 620 and 650 storage systems. The SnapServer Expansion S50 comes as an unpopulated JBOD chassis, which can be filled with up to 12 SAS or SATA drives for a customized mix of price and performance that fits your specific storage needs.

Smart

The SnapServer Expansion S50 is ideal for data and transaction-intensive applications. A SAS host connection transfers terabytes of data at speeds up to 1.2GB/scc

Safe

Advanced Enclosure Diagnostics continually monitors every component—power supplies, fans, disk drives, controllers—and shows you the status on a visual display. Each disk drive module also displays drive status and activity level with LEDs.

Simple

The SnapServer Expansion S50 JBOD provides simple scalability for the SnapServer 620 and 650 storage systems. The SnapServer 620 and 650 can employ the Instant Capacity Expansion (I.C.E.) feature built into GuardianOS™, which enables the new capacity to be instantly available without any disruption to users or applications.

Scalable

Each SnapServer Expansion S50 enables you to add between 300GB and 3.6TB of SAS, or 250GB and 24TB of SATA storage, so you can right-size your environment by purchasing only the storage you need. Scalable SnapServer NAS systems can support up to seven SnapServer Expansion S50 JBOD arrays, as well as a mix SAS and SATA drives, so you can easily add storage as your needs grow, while building a truly customized solution.

Reliable

Hot-swappable drives and redundant, hot-swappable power and cooling are standard with the SnapServer Expansion S50. Plus, each disk drive has its own dedicated 3GB SAS channel and point-to-point connection. This means that unlike traditional SCSI where all your drives were connected on a common bus and the failure of any drive could hang the entire bus, now a drive failure is isolated to that drive, without spreading to any other connections.



Highlights

- Supports SAS or SATA drives for a customized blend of price and performance to fit your specific storage needs
- Enables administrators to easily add storage to SnapServers as their needs grow—up to 168TB
- Provides point-to-point connectivity to isolate drive failures, thereby maximizing reliability and performance

Specifications

Connectivity	<p>One SAS I/O module One SAS port for host connection and the other SAS connection as expansion to additional Snap Expansion S50 JBOD arrays</p> <p>Note: SnapServer NAS systems support daisy-chaining of up to 7 Snap Expansion S50 JBOD arrays. Expansion of SnapServer NAS 520, selected SnapServer NAS 620, 18000 and 4500 requires an optional SnapServer SAS HBA.</p> <p>Each SAS connection supports up to 1,200MB/s</p>
Disk Drive Interface	Twelve independent 300MB/s point-to-point connections to each SAS or SATA disk drive with dual port access and failover by each controller to each drive
Measured Performance	Up to 750MB/s (sustained reads)
I/O Module Features	Single controller SAS and SATA support Auto-negotiate speeds Inband and out-of-band management SMP and SSP command/protocol support
Capacity	SATA: Up to 12 drives (24TB) capacity per 2U enclosure, SAS: Up to 12 drives (3.6TB) capacity per 2U enclosure
Redundant, Hot-Swappable Components	no advanced power and cooling modules (APC); Two independent AC power inlets; Enclosure services; Up to 12 drives; No active components on data path
Maximum SAS Cable Length	Up to 3m
Drive Configuration	4 Drives minimum; Supported SATA II or SAS drives available from Overland Storage
Physical/Mounting	3.5 in H x 17.6 in W x 19.5 in D (8.9 cm H x 44.7 cm W x 49.53 cm D) Weight with drives: 60 lbs (27 kg) max
Environmental Limits	Temperature: 0° to 40° C Temperature gradient: 20° C per hour Relative humidity: 5 to 95 percent (noncondensing) Altitude: -200 to 10,000 ft Shock: 5G @ 11ms, 1/2 sine wave pulse Vibration: 0.2G @ 5Hz to 350Hz
Monitoring	Temperature, advanced power and cooling modules including fan speed control, disk drives, and I/O module, as well as error rates and quality of service on each SAS
Disk Drives	Capacity: Up to 2TB; Rotational velocity: 7200 RPM 15k RPM; Interface: 3Gb SAS; 3Gb/1.5Gb SATA II; Form factor: 3.5in. form factor, 1.0 in. height; Supported disk drives: Only SnapServer NAS disk drives available from Overland Storage are supported
AC Power	Input voltage: Auto-ranging, 85-264 VAC Input frequency: 47-63 Hz Power factor correction: Per EN61000-3-2 Input current: 100-240 VAC @ 4-2.5 A Output power: 491 W peak, 430 W Heat Dissipation: 1467 BTUs/Hr. average for a fully populated system
Electromagnetic Emissions Standards	CE Mark, EN55022 Class A, EN61000 Class A, FCC Class A, Canadian DOC Class A, VCCI Class A
Safety Standards	UL 1950, CSA 22.2-950, EN 60950
Quality Standards	Manufactured under an ISO 9002 registered quality system
Standard Warranty	SnapServer NAS systems are covered by a two-year limited warranty including return to factory hardware support, operating system updates and telephone support. SnapServer NAS systems are eligible for enhanced Overland CARE maintenance options to augment the standard limited warranty. Specially priced 3-year Overland CARE support upgrades are available to protect your investment for the life of the product. Support for SnapServer Expansion S50 JBOD units must be purchased separately and run concurrently with the primary Unit. For more information about Overland Storage services, please contact your reseller, call Overland Storage at 1.800.442.7274 or visit us online at: www.overlandstorage.com .



Corporate:

Tel: 1.800.729.8725
Tel: +1.858.571.5555

Sales:

Tel: 1.888.343.7627 (US)
Tel: +1.858.571.5555 (Int'l)