

OptiSAN Series

Scalable IP SAN



Fault-tolerance and Scalability

StoneFly's OptiSAN Virtualized IP SAN Appliance offers enhanced redundancy, scalability, availability and performance. OptiSAN's Scalable architecture brings the flexibility to start small, and scale up to 100s of TeraBytes of Tiered (SATA&SAS) storage. The OptiSAN is designed for enterprise environments looking for a versatile IP SAN for HIGH AVAILABILITY storage applications. The OptiSAN supports SAS and SATA drives for online transaction processing, database, email, disk based archives, disk to disk backup, and other core applications. The cornerstone of the OptiSAN is the latest StoneFly Storage Concentrator with multi core parallel processing power, dedicated iSCSI cache, and the award winning StoneFusion IP SAN operating system. The OptiSAN's high-performance storage subsystem offers redundant, active/active connectivity for appliance redundancy and increased system performance. Additionally the OptiSAN offers cost-effective expansion via optional Expansion Units.

Virtual storage for Virtualized environments

- VMWare Certified
- Xen Certified
- Microsoft Virtualization products
- Virtual Iron

Stonefly OptiSAN Appliance	OptiSAN Appliance	
Description	Base OptiSAN	Expansion Unit
Host Interface	Standard: 6 or 10 GbE iSCSI Optional: 2 or 4 10G iSCSI	
Hot Swap Drives	16 SATAII or SAS	16 SATAII or SAS per expansion Unit Scale up to 256 drives
SATA Capacity Per Unit (Raw)	½ populated: 4,6,8TB Full: 12, 16TB	½ populated: 4,6,8TB Full: 12, 16TB
SAS Capacity Per Unit (Raw)	½ populated: 1.1,2.4TB Full: 2.3,4.8TB	½ populated: 1.1,2.4TB Full: 2.3,4.8TB

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Scalable / Redundant IP SAN Appliance

- iSCSI Based Storage Provisioning Appliance (Utilizes existing Ethernet network infrastructure)
- Active/Active IP Storage (High availability multi-node cluster architecture)
- Scalable up to 256 drives
- Horizontal or vertical scalability
- Host or volume load balancing
- Gigabit and 10Gb iSCSI port teaming, failover, and load balancing
- HW Raid 0,1, (0+1),3,5,6,10,30,50,60 with Battery backup

Advanced Features


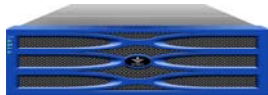
- Advanced Copy-on-write, delta based Snapshot technology with:
 - Read/Write snapshots
 - Scheduling and Rollback
 - Stonefly VSS agents for Exchange, SQL, backup SW, etc
- Synchronous mirroring
- Campus mirroring (iSCSI mirroring)
- Asynchronous Replication/Mirroring (CDP) with delta transfer and schedules
- Comprehensive IPSAN volume performance reporting and statistics
- Online, no downtime software upgrade

High Performance

- Active-Active simultaneous block level access to storage
- StoneFusion Virtualization Cluster Appliance utilizing up to 16 virtualization processing cores with 2GB of DATA Packet and command queuing cache (Patented)
- Jumbo frame support
- SAS/SATA performance tuning (Virtually move storage pools between SAS and SATA)

Ease of use

- Web based Intuitive User Interface
- Simple, on-demand, no downtime volume or storage expansion

Physical specification	Base OptiSAN	Expansion Unit
		
Form Factor	5U, 19-inch Rackmountable	3U, 19-inch Rackmountable
Dimensions (HxWxD)	8.6" x 19" x 25.6" (217mm x 485mm x 650mm)	5.2" x 19" x 19.8" (131mm x 482.6mm x 504.3mm)
Package Dimensions (HxWxD)	Two (7.75" x 23" x 32.5") (197mm x 586mm x 828mm) One (18.68" x 23.24" x 27.28") (476mm x 592mm x 695mm)	18.68" x 23.24" x 27.28" 476mm x 592mm x 695mm
Package Weight	Fully populated : 204.7lbs (92.8Kg) ½ populated : 190.7lbs (86.5Kg)	Fully populated : 93lbs (42.18kg) ½ populated: 79lbs (35.8kg)
Power requirements	6 Power supplies/cords 100VAC@25A, 240VAC@12.5A, 50-60Hz	2 Power supplies/cords 100VAC@ 9A, 240VAC@ 4.5A, 47-63Hz
Temperature	Operating: 10° to 35°C (50°F to 95°F), Non-operating: 40° to 60°C (-40°F to 149°F)	
Relative Humidity	8 to 90%, non-condensing	

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