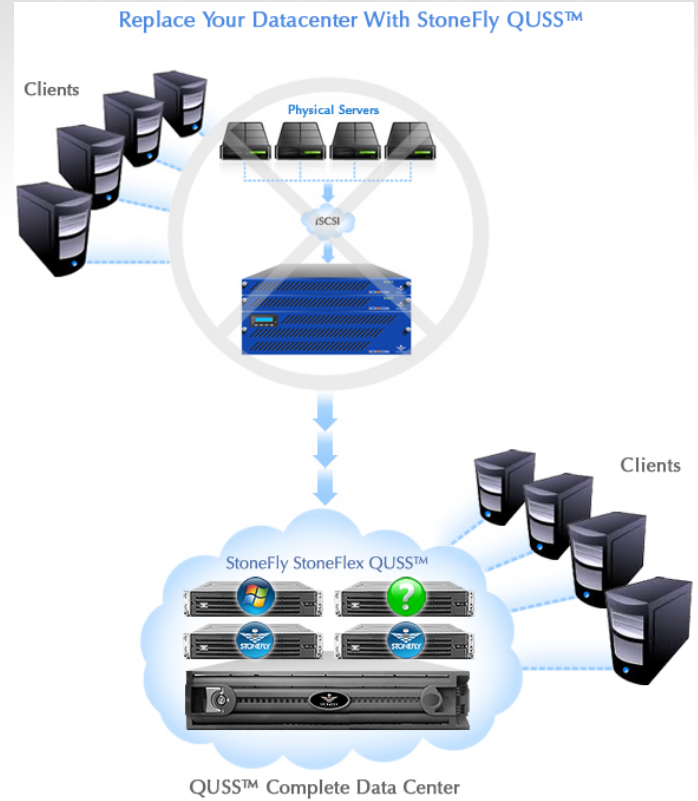




Quad Unified Storage & Server (QUSS™)



Quad Unified Storage & Server Appliance

QUSS™ is an ideal solution to consolidate all your Server and Storage systems into one easy to manage, fully redundant, highly available appliance. Use of virtualized operating systems allows for complete hardware utilization and considerable reduction in power/cooling costs. QUSS™ flexibility replaces the “Fixed Hardware Model” of the past with on-demand resource allocation (such as CPU, memory, storage, etc..) based on your application needs. QUSS™ comes with as IP SAN Cluster and the ability to create additional Virtual Storage or Servers as needed. Select from three different editions: Standard Edition that includes an Virtual IP SAN and the ability to create additional Virtual Storage or Servers as needed. Archiver Edition adds a Virtual archiver server, and Cloud edition adds a Virtual Cloud Server.

StoneFly QUSS™ Appliances	QUSS12		QUSS16	
	Base Unit	Expansion Unit	Base Unit	Expansion Unit
				
Modules	Standard: Active/Active Clustered IPSAN Optional Flex Module Pairs: <ul style="list-style-type: none"> - Cluster: Active/Active IPSAN (Creates a quad-engine IPSAN) - Two Single or Cluster: “Windows Server” or “Windows Storage Server with iSCSI Target” 2008 R2 64 Bit Enterprise - Two Single: “Windows Server” or “Windows Storage Server with iSCSI Target” 2008 R2 64 Bit Standard - Two Single: Cloud Gateway - Two Single: Linux 			
IPSAN Cluster ports (Per cluster)	Management : 2x1Gb iSCSI : 2x1Gb + 2x10Gb-CX4			
Flex Module Server ports (Per Module)	Standard: 2x1Gb + 2x10Gb-CX4 Optional: Additional 2x1Gb or 4x1Gb or 2x10Gb-CX4 or 2x10Gb-SFP+ (Copper, SR, or LR)			
HW Raid	0,1,5,6,10,50,60 (Battery backed)			
Storage Capacities per IPSAN Cluster or Server module Cluster	SATA-6G-7200 RPM: 6 to 240 TB SAS-6G-15K RPM: 1.8 to 72 TB SSD: 1.44 to 72 TB		SATA-6G-7200 RPM: 8 to 320 TB SAS-6G-15K RPM: 2.4 to 96 TB SSD: 1.92 to 96 TB	

IPSAN Cluster Features:

- iSCSI Based Storage Provisioning Appliance
- Dual engine or Quad Engine Active/Active IPSAN
- Active-Active Hot Swap IP SAN Cluster (High availability multi-node cluster)
- Scalable up to 120 drives (QUSS12), 160 drives (QUSS16)
- Diverse HW Raid Options 0,1,5,6,10,50,60
- Redundant battery backed RAID cache protection
- Redundant Load balanced power supplies
- Jumbo frames, MPIO, Gigabit or 10Gb (copper or optical) iSCSI port teaming, failover, and load balancing
- Comprehensive IPSAN volume performance reporting and statistics
- StoneFusion utilizing up to 8 virtualization processors with 4GB of DATA Packet and command queuing cache
- Copy-on-write Snapshot
 - Read/Write
 - Scheduling
 - Rollback,
 - VSS agents
- Synchronous iSCSI mirroring (Local or Campus)
- SAS/SATA/SSD Storage Tiering (Select your volumes from SAS, SATA, or SSD pools)
- Web based Intuitive User Interface
- On-demand, no downtime volume or storage expansion
- Asynchronous Replication/Mirroring (CDP) with delta transfer and schedules
- Volume/block based Encryption (AES256)
- Thin Provisioning with Space Reclamation

QUSS comes with 4 hot-swap modules

- Two Modules will always house one IP SAN Cluster



- Two other Flex Modules can house:

QUSS Standard Edition:

- 2nd IP SAN Cluster to create a quad engine Active/Active IPSAN
- Windows Server or Windows Storage Server 2008 R2 64-bit Enterprise Cluster
- Two Windows Server or Windows Storage Server 2008 R2 64-bit Standard
- Two Linux Servers

QUSS Archiver Edition: Standard plus Archiver Server VM

QUSS Cloud Edition: Standard plus Cloud Server VM

Physical specification	QUSS12		QUSS16	
	Base Unit	Expansion Unit	Base Unit	Expansion Unit
				
Form Factor	4U, 19-inch Rackmountable	2U, 19-inch Rackmountable	5U, 19-inch Rackmountable	3U, 19-inch Rackmountable
Dimensions (HxWxD)	7" x 17.5" x 28.5" (177mm x 444mm x 724mm)	3.5" x 17.5" x 22.1" (88mm x 444mm x 561mm)	8.7" x 17.6" x 28.5" (220mm x 446mm x 724mm)	5.2" x 17.6" x 22.1" (131mm x 446mm x 561mm)
Weight	159lbs (72Kg)	71lbs (32Kg)	½ full: 164.05lbs (74.5kg) Full: 172.9lbs (78.5Kg)	½ full: 76.05lbs (34.5kg) Full: 84.9lbs (38.5Kg)
Max Power requirements	4 Power supplies/cords 100VAC@19.5A, 240VAC@9.5A, 50-60Hz	2 Power supplies/cords 100VAC@25A, 240VAC@12.5A, 50-60Hz	4 Power supplies/cords 100VAC@19.5A, 240VAC@9.5A, 50-60Hz	2 Power supplies/cords 100VAC@25A, 240VAC@12.5A, 50-60Hz
Max Temperature (operating)	10° to 35°C (50°F to 95°F)			
Relative Humidity (operating)	20 to 95%, non-condensing			

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