

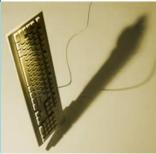
GateStor



Data Systems Corporation



SP7K[®] Flash Series



GateStor proudly offers SP7K® Flash v1.6-- *the* premiere open systems-based flash storage system solution based on the Legendary patented technology and revolutionary architecture.

The SP7K® Flash is a robust, feature-rich SAN or Direct Attached Storage appliance system in one, optimized for today's best-of-breed COTS gear.

SP7K® Flash storage management system delivers super-high performance, ease-of-use and cost-effectiveness demanded by today's storage users in a very small form factor for environments that do not have space and required minimal power consumption.



Via its native License Manager, the SP7K® Flash delivers the flexibility to serve the complete range of storage management needs – from SMB to large enterprise operations – by managing a rich set of optional and bundled features.

Historically storage vendors offered the market extremely limited Flash storage management options – low-end SAN/DASD systems, which did not scale as an organization needs grew, or high-end, expensive SAN/DASD systems, which many small and mid-size organizations were simply priced out of.

Flash SP7K® patented architecture has demonstrated for over 10 years to be the unique in the market on its Virtual Storage memory manager and broadcast technology which reduces the number of data transfers, resulting on outstanding performance many times faster than expensive high-end dedicated FLASH SAN solutions.

Today, however, GateStor proudly leads the shift, offering storage software solutions that span the full range of current storage management needs - with the features, and at the price-points, demanded by SMB's and large enterprises alike.

SP7K® FLASH Feature Highlights

- RAID on top of RAID architecture for augmenting performance and capacity (RAID 0,1,5,6,50,56,550 and 560)
- Virtual memory management Vs traditional cache
- Up to 2TB of cache memory
- Front-End Connectivity:
 - o 4 InfiniBand @ 200/100 Gb/s ports
 - 4 200/100/10 Gb Ethernet ports
 - 8 32/16 Gbps FC ports

- Extensive storage Virtualization
- iSCSI, and Block level shared on any of the front-end connections
- JBOD Support for self-healing Flash modules
- Support for up to 512TB in 1U chassis
- Multiple flash failure support
- Easy capacity expansion by just adding Flash modules or trays
- Dynamic Partition Expansion
- High Availability Configurations
- GUI for Configuration and Monitoring
- UPS Support

Storage Management

- Virtualization of Flash memory into virtual drives
- User Quota management
- Local and Remote replication
- Can integrate/incorporate legacy storage devices

Basic Configurations

Head Unit Size/Weight (kg. without Flash)			2U/Net Weight: 35 lbs (15.9kg)		
		Gross Weight: 57 lbs (25.9kg)			
Dimension (W x D x H)(mm)		17.2" (437mm)x 3.5" (89mm) x 24.8" (630mm)			
		26.5" (W) x 10.5" (H) x 38" (L) (package size)			
Drive Unit Size/Weight (kg. without SSDs)		4U/80 lbs (36.3 kg) gross weight			
Dimension (W x D x H)(mm)		7" (178mm) x 17.2" (437mm) x 27.5" (699mm)			
		26.5" (W) x 10.5" (H) x 38" (L) (package size)			
Processor			Support for two Xeon 64bit quad core processors		
RAID Levels		0, 1, 3, 5, 6, 50, 60			
Cache		16GB, up to 128GB			
Array Stripe Size		4K, 8K, 16K, 32K, 64K, 128K			
Model	SP7K Flash 20	S	P7K Flash 40	SP7K Flash 60	
Host Channel	InfiniBand x 2	Infin	niBand x 4	InfiniBand x 8	
	100 GbE x 2	200	/100 GbE x 4	200/100 GbE x 4	
(Select one or combine up to the max	FC (32Gb) X 4	FC ((32Gb) X 8	FC (32Gb) X 8	
number of ports)	(===,,		(,	(====)	
Number Of Flash Modules	32 Slots for 1TB	64.5	Slots for 1TB to	128 Slots for 1TB to	
Nomber of Hash Modeles	to 16TB G3	16T	B G3 NVMe	16TB G3 NVMe	
	NVMe drives	drive		drives	
Number of Flash 1U trays	One	Two)	Four	
Nottiber of flash to hays	0110	1		1 Gai	
Connection Types		FC 32Gb, InfiniBand 200/100Gbps,			
		10/100/200GbE			
Protocols			iSCSI, FCP, SRP, IPoIB, CIFS, NFS, NVMeoF		
Virtualized Volume		Can be assigned to any connection types.			
THIOGHEOU TOICHIO		Switching between different connection types is			
		possible.			

Management Interface Language	English		
iSCSI Port Bonding	Balance-rr, Active-backup, Balance-xor,		
Bonding Mode	Broadcast, Balance-tlb, Balance-alb		
Backplane	SAS supports SES-II, SGPIO		
Flash Tray Interface	SAS / SATA3		
SSD Bays	32 On head Unit		
Capacity	Std. 32TB Max.2PB		
Flash Tray Expansion	Up to 8 JBOD NVMe Flash trays		
Write Mode	Write Back / Write Through		
Copy/Mirror/Replication	Local Mirror, Remote Mirror, Remote Replication, Duplication, Volume Copy		
Monitoring	Channel sampling, Volume historical read / write statistic, GUI login / logoff, log, client connections, GbE interface, HDDs status.		
Alert	Alarm type: Mail / LED / Audio Alarm Alarm Trigger: HDD Failure / Fan Failure / Redundant Power Supply / Remote Mirror Broken		
Expansion	Online Capacity Upgrade		
Hot-swap Power Supply Head Unit	620W Gold Level hot-swappable redundant power		
Hot-swap Power Supply Flash tray	200W Gold Level hot-swappable power supply		
Cooling	12*hot-swappable fan		
Power Source	AC 110V~240V Full Range 50-60Hz		
Operating Temperature	5°C~35°C (41°F~95°F)		
Non-operating Temperature	-20°C~55°C (-4°F~131°F)		
Operating Humidity	35%~85% (non-condensing)		
Non-operating Humidity	20%~93% (non-condensing)		
OS Support	Windows 10, Windows 8, Windows 2016, Windows 2012, RedHat Linux, SuSE Linux, AIX, Solaris		