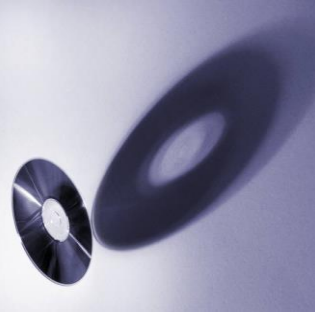




**GateStor**  
Data Systems Corporation



# SAN / DASD Storage Solutions

## SolidPower 7000<sup>®</sup> SP7K<sup>®</sup> Series



**GateStor** proudly offers **SP7K<sup>®</sup> v1.3**-- *the* premiere open systems based storage system solution based on the Legendary patented technology and revolutionary architecture.

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

**SP7K<sup>®</sup>** storage management system delivers the high-performance, ease-of-use and cost-effectiveness demanded by today's storage users.

Via its native License Manager the **SP7K<sup>®</sup>** 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 very limited storage management options – low-end SAN/DASD systems, which did not scale as an organizations needs grew, or high-end, expensive SAN/DASD systems, which many small and mid-size organizations were simply priced out of.

**SP7K<sup>®</sup>** 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 SAN solutions.

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

## SP7K<sup>®</sup> SAN/DASD 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 256GB of cache memory
- Front-End Connectivity:
  - 6 InfiniBand @ 100 Gb/s ports
  - 6 100/40/10 Gb Ethernet ports
  - 8 16 Gbps FC ports
- Extensive storage Virtualization
- iSCSI, and Block level shared on any of the front end connections
- SSD Drive support as Cache pool
- Back-End drive support
  - SAS 6Gbps 15K RPMs
  - SATA 6Gbps 7.2K RPMs
  - Solid State Drives
- Support for up to 1200 drive configurations
- Multiple drive failure support
- Dynamic Partition Expansion
- High Availability Configurations
- GUI for Configuration and Monitoring
- UPS Support

### Storage Management

- Virtualization of Physical Devices
- Storage Agnostic (SATA, SAS, FC, third party FC storage boxes, etc.)
- Stripe over legacy storage devices

### Basic Configurations

<b>Head Unit Size/Weight (kg. without SSDs)</b>	2U/Net Weight: 35 lbs (15.9kg) Gross Weight: 57 lbs (25.9kg)		
<b>Dimension (W x D x H)(mm)</b>	17.2" (437mm)x 3.5" (89mm) x 24.8" (630mm) 26.5" (W) x 10.5" (H) x 38" (L) (package size)		
<b>Drive Unit Size/Weight (kg. without SSDs)</b>	4U/80 lbs (36.3 kg) gross weight		
<b>Dimension (W x D x H)(mm)</b>	7" (178mm) x 17.2" (437mm) x 27.5" (699mm) 26.5" (W) x 10.5" (H) x 38" (L) (package size)		
<b>Processor</b>	Support for two Xeon 64bit quad core processors		
<b>RAID Levels</b>	0, 1, 3, 5, 6, 50, 60		
<b>Cache</b>	16GB, up to 128GB		
<b>Array Stripe Size</b>	4K, 8K, 16K, 32K, 64K, 128K		
<b>Model</b>	<b>SP7K 200</b>	<b>SP7K 400</b>	<b>SP7K 600</b>
<b>Host Channel</b> (Select one or combine up to the max number of ports)	Infiniband x 4 100G 10/40/100 GbE x 4 FC (16Gb) X 4	Infiniband x 4 100G 10/40/100 GbE x 4 FC (16Gb) X 6	Infiniband x 6 100G 10/40/100 GbE x 6 FC (16Gb) X 8
<b>Number Of Drives</b>	45 drives basic Up to 180 drives	45 drives basic Up to 315 drives	90 drives basic Up to 495 drives
<b>Number of Solid State Drives in Head Unit for Cache Extension</b>	Four 256GB	Eight 256GB	Twenty 256GB
<b>Connection Types</b>	FC, InfiniBand 100Gbps, 10/40/100GbE		
<b>Protocols</b>	iSCSI, FCP, IB SRP, IPoIB, CIFS, NFS		
<b>Virtualized Volume</b>	Can be assigned to any connection types. Switching between different connection types is possible.		

# SP7K<sup>®</sup> Features Highlights

<b>Management Interface Language</b>	English
<b>iSCSI Port Bonding Bonding Mode</b>	Balance-rr, Active-backup, Balance-xor, Broadcast, Balance-tlb, Balance-alb
<b>Backplane</b>	SAS supports SES-II, SGPIO
<b>HDD Bays Interface</b>	SAS / SATA3
<b>SSD Bays</b>	24 On head Unit
<b>Capacity</b>	Std. 32TB Max.128TB (1000GB each)
<b>JBOD Expansion</b>	Up to 8 JBODs
<b>Write Mode</b>	Write Back / Write Through
<b>Copy/Mirror/Replication</b>	Local Mirror, Remote Mirror, Remote Replication, Duplication, Volume Copy
<b>Monitoring</b>	Channel sampling, Volume historical read / write statistic, GUI login / logoff, log, client connections, GbE interface, HDDs status.
<b>Alert</b>	<b>Alarm type:</b> Mail / LED / Audio Alarm <b>Alarm Trigger:</b> HDD Failure / Fan Failure / Redundant Power Supply / Remote Mirror Broken
<b>Update</b>	Online Firmware Update / License Update
<b>Hot-swap Power Supply Head Unit</b>	900W Gold Level hot-swappable redundant power
<b>Hot-swap Power Supply 45 drive chassis</b>	1400W Gold Level hot-swappable redundant power
<b>Cooling</b>	4*hot-swappable fan
<b>Power Source</b>	AC 110V~240V Full Range 50-60Hz
<b>Operating Temperature</b>	5°C~35°C (41°F~95°F)
<b>Non-operating Temperature</b>	-20°C~55°C (-4°F~131°F)
<b>Operating Humidity</b>	35%~85% (non-condensing)
<b>Non-operating Humidity</b>	20%~93% (non-condensing)
<b>OS Support</b>	Windows 7, Windows 8, Windows 10, Windows Server 2008, Windows Server 2013, Redhat Linux, SuSE Linux, AIX, Solaris



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