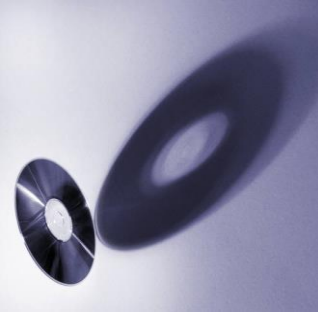
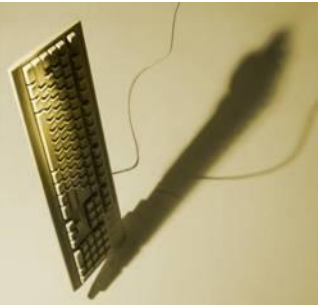




GateStor
Data Systems Corporation



SolidPower 7000[®] SP7K-NVMe[®] G5 Series



SAN / DASD Storage Solutions

GateStor proudly offers **SP7K-NVMe[®] G5 Series**-- *the* premiere open systems-based storage system solution based on the Legendary patented technology and revolutionary architecture and now supporting PCIe Gen5 ultra-fast bus technology from frontend I/O adapters to enterprise NVMe Gen5 drives.

The **SP7K-NVMe[®] G5** is a robust, feature-rich SAN or Direct Attached Storage appliance system in one, optimized for today's fastest Gen5 flash storage technology NVMe. The **SP7K-NVMe[®] G5** has been designed for the most demanding performance applications providing up to **6 million IOPS**.

SP7K-NVMe[®] G5 Can support 737TB in the 2U base unit, and up to 2,700TB of NVMe Gen5 drives with two 1U 32 drive expansion chassis.

SP7K-NVMe[®] G5 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-NVMe[®] G5** 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 NVMe storage capacity options – mid-end SAN/DASD systems, which did not scale as an organization needs grew, or high-end, expensive SAN/DASD Flash systems, which many small and mid-size organizations were simply priced out of.

SP7K-NVMe[®] G5 patented architecture has demonstrated for over 14 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-NVMe® SAN/DASD Feature Highlights

- RAID on top of RAID architecture for augmenting performance and capacity (RAID 0,1,5,6,50,60,550 and 560)
- Virtual memory management Vs traditional cache
- Up to 8TB of cache persistent memory
- Front-End Connectivity:
 - 6 InfiniBand @ 400/200/100 Gb/s
 - 6 400/200/100/40/10 Gb Ethernet
 - 16 32/16 Gb FC ports
 - OmniBUS™ 1024 Gbps
- Extensive storage Virtualization
- iSCSI, and Block level shared on any of the front-end connections.
- Back-End drive support
 - NVMe Gen 5.0 (Non-Volatile Memory Express Drives)
 - Support SAS/SATA SSD drives
 - OmniBUS™ Cluster
- Support for up to 86 NVMe drives and 480 SAS/SATA/SSD drives (9.6 PB)
- Multiple drive failure support
- Dynamic Partition Expansion
- High Availability Configurations
- GUI for Configuration and Monitoring
- Hybrid Drive support (NVMe/SAS/SATA)
- Hybrid host connections

Storage Management

- Virtualization of Physical Devices and third-party storage systems
- Storage Agnostic (NVMe, SATA, SAS, FC, third party FC storage boxes, etc.)
- Stripe over legacy storage devices
- Optional Software (Local & Remote Replication, Data Encryption, Thin Provisioning, Snapshots, Dedupe/Compression, Ransomware, Cloud in a Box)

Basic Configurations

Head Unit Size/Weight (kg. without SSDs)		2U/Net Weight: 37 lbs. (16.8kg) Gross Weight: 63 lbs. (28.6kg)	
Dimension (W x H x D) (mm)		17.2" (437mm) x 3.5" (89mm) x 27.76" (705mm) 24.6" (W) x 9.96" (H) x 445.5" (L) (package size)	
Optional Drive Unit Size/Weight (kg. without Drives)		1U/65 lbs. (29.5 kg) gross weight	
Dimension x H x D) (mm)		17.26" (438mm) x 1.71" (43.6mm) x 31.95" (812mm) 26.5" (W) x 9.96" (H) x 38" (L) (package size)	
Processor		Support for two Gold Xeon 64bit processors	
RAID Levels		0, 1, 3, 5, 6, 50, 60, 550, 560 & JBOD	
Cache		64GB, up to 8TB Persistent Memory	
Array Stripe Size		4K, 8K, 16K, 32K, 64K, 128K	
Model	SP7K-NVMe 200	SP7K-NVMe 400	SP7K-NVMe 600
Host Channel (Select one or combine up to the max number of ports)	InfiniBand 200 Gb x 2 10/100/200 GbE x 2 FC (32Gb) X 4 OmniBUS 506 Gbps	InfiniBand 200 Gb x 4 10/100/200 GbE x 4 FC (32Gb) X 8 OmniBUS 506 Gbps	InfiniBand 200 Gb x 4 10/100/200 GbE x 4 FC (32Gb) X 16 OmniBUS 506 Gbps
Number Of Drives	22 NVMe G4 drives And 240 SAS/SATA	54 NVMe drives And 240 SAS/SATA	86 NVMe drives And 480 SAS/SATA
Number of Standard 10GbE ports	Two Base-T	Two Base-T	Four, 2 Base-T 2 SFP+
Connection Types		FC 16/32, InfiniBand 200/100 Gbps, 200/100/10 GbE, One OmniBUS® 506Gbps	
Protocols		iSCSI, FCP, IB SRP, iPoIB, CIFS, NFS, iSER., NVMeoF (NVMe over Fabrics)	
Virtualized Volume		Can be assigned to any connection types. Switching between types is possible.	

SP7K® Features Highlights

Management Interface Language	English
Controller Configurations and Redundancy	Single, Dual (Active/Active), 3 to 1024 Cluster mode
Features (Options)	Snapshots: Up to 1024 per volume Thin Provisioning Encryption Compression/Dedupe
iSCSI Port Bonding Bonding Mode	Balance-rr, Active-backup, Balance-xor, Broadcast, Balance-tlb, Balance-alb
Backplane	NVMe Gen 4.0 /SAS supports SES-II, SGPIO
HDD Bays Interface	Head Unit NVMe options SAS / SATA3
NVMe Bays	24 On head Unit
Capacity	NVMe 20TB-864TB Optional SAS/SATA 20TB - 3.8 PB (Petabytes)
JBOD Expansion	Up to 2 JBODs
Write Mode	Write Back / Write Through
Copy/Mirror/Replication	Local Mirror, Remote Mirror, Remote Replication, Duplication, Volume Copy
Monitoring	Throughput Gb/s, IOPS, CPU utilization, Idle time, Channel sampling, Volume historical read / write statistic, GUI login / logoff, log, client connections, GbE interface.
Local and Remote Alert	Alarm type: Mail / LED / Audio Alarm Alarm Trigger: HDD Failure / Fan Failure / Redundant Power Supply / Remote Mirror Broken
Update	Firmware Update / License Update
Hot-swap Power Supply Head Unit	1,280W Titanium Level hot-swappable redundant power
Hot-swap Power Supply 32 drive chassis	1000W Titanium Level hot-swappable redundant power
Cooling	5*hot-swappable fans
Power Source	AC 110V~240V Full Range 50-60Hz, 13A-6.5A Max, C13 Power Cords
Operating Temperature	10°C~35°C (50°F~95°F)
Non-operating Temperature	-40°C~60°C (-40°F~140°F)
Operating Humidity	8%~90% (non-condensing)
Non-operating Humidity	5%~95% (non-condensing)
OS Certified *	Windows 10, Windows Server 2019, 2022, Red Hat, CentOS, Rocky, SuSE Linux, Solaris, VMWare

*Request your representative for latest OS versions certified.



GateStor Data Systems Corporation
 sales@gatestor.com
www.gatestor.com
 22 Cotton Rd.
 Nashua, NH 03063

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