



SPECIFICATION SHEET

SP7K-NVMe 200, 400, 600



Item	SP7K-NVMe 200	SP7K-NVMe 400	SP7K-NVMe 600
Host Ports	IB 100/200/400 Gb/sec, 4–8 ports. Ethernet 10/25/40/100/200/400/800 GbE/sec, 4–8 ports. FC 16Gb/sec, 32Gb/s, 4–8 ports. OmniBUS® PCIe 5.0, 1,025 Gb/sec.	IB 100/200/400 Gb/s, 8–16 ports. Ethernet 10/25/40/100/200/400/800 GbE/s, 8–16 ports. FC 16Gb/sec, 32Gb/s, 8–16 ports. OmniBUS® PCIe 5.0, 1,025 Gb/s.	IB 100/200/400 Gb/s, 8–16 ports. Ethernet 10/25/40/100/200/400/800 GbE/s, 16–32 ports. FC 16Gb/sec, 32Gb/s, 16–32 ports. OmniBUS® PCIe 5.0, 1,025 Gb/s.
Drives	24 NVMe + 240 SAS/SATA	60 NVMe + 240 SAS/SATA	120 NVMe + 480 SAS/SATA
Encryption	AES-256, TLS 1.2, TLS 1.3, IPSec	AES-256, TLS 1.2, TLS 1.3, IPSec	AES-256, TLS 1.2, TLS 1.3, IPSec
Mgmt Console	Web HTTPS unified SAN/NAS	Web HTTPS unified SAN/NAS	Web HTTPS unified SAN/NAS
10GbE Ports	4 Base-T	4 Base-T	8 Base-T
iSCSI	Bonding supported	Bonding supported	Bonding supported
FCP	Up to 32Gb/s	Up to 32Gb/s	Up to 32Gb/s
IB SRP	Up to 400 Gb/s	Up to 400 Gb/s	Up to 400 Gb/s
IPoB	Supported	Supported	Supported
AFP/WebDav/FTP/Telnet	Supported	Supported	Supported
Cisco/UNH/Microsoft initiators	Supported	Supported	Supported
Network Mgmt	Multiple portals, portal groups, multiple targets per port, initiator access control, TOE NIC support, LAG, syslog.	Same	Same
HBA Support	Intel®, Mellanox® (boot), Qlogic®	Intel®, Mellanox® (boot), Qlogic®	Intel®, Mellanox® (boot), Qlogic®
RAID	0, 1, 3, 5, 6, 50, 60, 550, 560(3P)	0, 1, 3, 5, 6, 50, 60, 550, 560(3P)	0, 1, 3, 5, 6, 50, 60, 550, 560(3P)
CIFS/SMBv3	NAS file sharing	NAS file sharing	NAS file sharing
NFSv4.1 / S3	NAS file sharing	NAS file sharing	NAS file sharing
iSER	Enhances iSCSI performance	Enhances iSCSI performance	Enhances iSCSI performance
NVMeoF	Supported	Supported	Supported
NDMP	Backup and recovery	Backup and recovery	Backup and recovery
RoCE	Low-latency RDMA	Low-latency RDMA	Low-latency RDMA
LDAP/AD/CHAP	User authentication	User authentication	User authentication
Content Adaptation	Content inspection	Content inspection	Content inspection
iSCSI RFC 3720	Supported	Supported	Supported
Applications	Bacula, Commvault, Veeam, Zerto, VMware, Hyper-V, Proxmox, KVM, Hanna, Vaultsafe, MinIO	Same	Same
Storage Virt.	Full, all protocols	Full, all protocols	Full, all protocols
Strip Size	4K, 8K, 16K, 32K, 64K, 128K	4K, 8K, 16K, 32K, 64K, 128K	4K, 8K, 16K, 32K, 64K, 128K

PCIe 5.0 Switched	Yes, 1Tb/s	Yes, 1Tb/s	Yes, 1Tb/s
PCIe 5.0 Direct	Yes, 1Tb/s	Yes, 1Tb/s	Yes, 1Tb/s
Expansion Unit	Yes, 1TB/s w/OmniBUS®	Yes, 1TB/s w/OmniBUS®	Yes, 1TB/s w/OmniBUS®
In-Storage Memory	Yes, 1TB/s w/OmniBUS®	Yes, 1TB/s w/OmniBUS®	Yes, 1TB/s w/OmniBUS®
Write Mode	Write pass-through and write back	Write pass-through and write back	Write pass-through and write back
Cluster Backbone	Yes, 1TB/s w/OmniBUS®	Yes, 1TB/s w/OmniBUS®	Yes, 1TB/s w/OmniBUS®
PCIe Backward Compat.	Yes, 4.0 / 3.0 / 2.0	Yes, 4.0 / 3.0 / 2.0	Yes, 4.0 / 3.0 / 2.0
Availability	99.99%–99.999999%	99.99%–99.999999%	99.99%–99.999999%
Storage Virtualization	Third-party and physical storage, independent of type	Same	Same
Discovery / iSNS	Supported	Supported	Supported

Hardware Specifications

Component	Description
Processors	2 or 4 Intel Xeon 64-bit, 8–112 cores each
Cache	64GB to 4TB volatile + 8TB persistent
Power Supply	Head: 1,280W Titanium redundant; JBOD: 1,000W Titanium
Cooling	5 hot-swap fans
Dimensions	17.2" W x 3.5" H x 27.76" D (437 x 89 x 705 mm)
Weight	Net: 37 lbs; Gross: 63 lbs
Environmental	Operating: 10–35°C, 8–90% RH; Non-op: -40–60°C, 5–95% RH
OS Compatibility	Windows 10/11/Server 2019/2022, Red Hat, CentOS, Rocky, SuSE, Solaris, Oracle Linux, VMware
HDD Sizes	18TB, 20TB, 22TB, 24TB, 30TB
NVMe/SSD Sizes	3.84TB, 7.68TB, 15.36TB, 30.72TB, 61.44TB, 122.88TB
Global Hot Spare	Minimum 1 per drive type, up to 256
OS Certified	Windows 11/10, Windows Server 2019/2022, Red Hat, CentOS, Rocky, SuSE, Solaris, Oracle Linux, VMware
Compatible	Classic HCP Tier 2 Storage, HCP-CS, Veeam Backup & Replication, Commvault Backup, Bacula Backup, Hanna controller in-memory volumes w/OmniBUS®
Controllers	Single, Dual Active/Active, 3–1024 cluster mode
Options	Immutable snapshots up to 1024 per volume, thin provisioning, encryption, compression/dedupe, replication, iSCSI port bonding, perpetual license
Backplane	End-to-end PCIe 5.0 with NVMe Gen 5.0 / SAS/SATA support, SES-II, SGPIO
HDD Bays Interface	NVMe options, SAS 12Gb/s / SATA3 6Gb/s
NVMe Bays	24 on head unit, PCIe 5.0
Capacity	NVMe: 15.6 PB with 122TB drives; SAS/SATA: 13.2 PB
HDD Capacity	13.2 PB with 30TB SAS/SATA drives
JBOD Expansion	Up to 2 JBODs (36 NVMe Gen 5 drives each)
JBOD Expansion	Up to 10 JBOD units (44 HDD x 30TB each)
Write Mode	Write Back / Write Through
Copy/Mirror/Replication	Local, remote, intra, cross-host, reflective, replicated, duplication, volume copy
Monitoring	Throughput, IOPS, CPU, idle time, channel stats, volume history, logs, client connections, interface status, drive status
Alerts	Mail, LED, audio; triggers for HDD failure, fan failure, PSU failure, remote mirror break
SW License	Perpetual license for firmware and all system software
Hot-swap PSU	1,280W Titanium-level redundant; 1,000W Titanium-level redundant for 32-

	drive chassis
Power Source	AC 110V~240V full range, 50~60Hz, 13A~6.5A max, C13 power cords
Operating Temp.	10°C~35°C (50°F~95°F)
Non-operating Temp.	-40°C~60°C (-40°F~140°F)
Operating Humidity	8%~90% non-condensing
Non-operating Humidity	5%~95% non-condensing



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