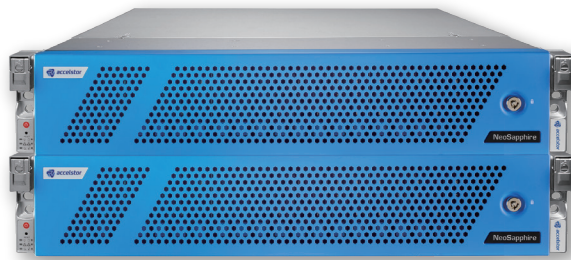# NeoSapphire H810

- Innovative self-developed software technology unleashes the SSD real performance while increasing the SSD lifespan and extending the service life of the storage system, ensures continuous high performance.

- Symmetrical Active-active shared-nothing architecture with real-time data synchronization provides a highly reliable storage solution for continuous businesses.

- With"3+2+5"measures, it can safely protect your key data.

- High-end enterprise storage solution tailored for database, OLTP, cloud computing, HPC, AI, data mining, virtualization and other applications.

NeoSapphire H810 Product Specifications

Form Factor	2 x 2U 24-bay rack mount with 2.5" drives
Storage Architecture	Symmetrical Active-active shared-nothing architecture
IOPS for 4KB Random Writes[1]	> 750 k on average while average latency < 450 μs
IOPS for 4KB Random Reads[1]	> 1800 k on average while average latency < 220 μs
IOPS for 4KB 70% Random Reads and 30% Random Writes[1]	> 1300 k on average while average latency < 320 μs
Usable Capacity[2]	28 / 57 / 114 TB
Effective Capacity[3]	84 / 171 / 342 TB
Type of SSD / Number of SSD	NVME / 48
Flash Management	FlexiRemap® Award-winning Technology
FE Connectivity	8 x 32G Fibre Channel LC SFP+ or 8 x 25G SFP28 / 8 x 100G QSFP28
Management Interface	WebUI (HTTP/HTTPS) , CLI (via serial port) , RESTful API
Storage Protocol	FC, iSCSI, NFS
Software Features	• Snapshot / Group Snapshot / Clone • Inline / Background Deduplication • Thin / Thick Provisioning • Inline / Background Compress • Snapshot Backup / Recovery • Self-Encrypting Drive (SED) • Remote Replication • FlexiCluster • Cloud Backup
Certification	• VMware Ready • Microsoft Windows Server 2016 • VMware VAAI Block • Microsoft Windows Server 2012 R2 • vSphere Web Client Plug-in • Microsoft Windows Server 2012 • DataCore SMPA Qualified • Microsoft Volume Shadow Copy Service (VSS) • Tiger Technology Certified
Power Supply Unit(per node)	1600W 1+1 Redundancy
Dimensions(W x D x H) (per node)	437mm x 723mm x 89mm (17.2" x 28.5" x 3.5")
Net Weight (per node)[4]	20 kg (lb)
Environmental Temperature	Operating: 10°C to 35 °C Storage (Non-operating) : -5°C to 40°C
Environmental Humidity	Operating Relative Humidity : 8% to 90% Storage (Non-operating) Relative Humidity: 5% to 90%

1. Based on optimal testing configuration, performance may vary with different applications or product configurations.

2. Useable Capacity has taken out the overhead used for the protection mechanism developed by AccelStor Technologies Ltd, and it can be directly used for business data storage.

3. Effective Capacity is based on a calculation and assessment of the type of data being used and other factors such as compression etc. It is an estimate and may be better or worse depending on these factors.

4. Weight may vary depending on components and manufacturing variability.