

Oceanspace S8100 New Generation High-end Storage System



Huawei Symantec



Oceanspace S8100

Overview

Huawei Symantec's Oceanspace S8100 storage system (hereinafter referred to as the S8100) is a new generation high-end storage system for core and critical businesses. It has high reliability, industry-leading performance, high capacity, Scale-Out scalability, comprehensive data protection features and value-added features, which make it applied for core and large-scale database, high performance computing, massive data sets storage, backup, archiving, migration and other scenarios, while effectively protecting investment.

Product Features

Open Layered Hardware Architecture (OLA)

- **Double Layer Engines (DLE):** Service controller and Data controllers all have powerful processing capabilities, completely eliminating bottlenecks. The Service Controllers are used for processing value-added operations and Data Controllers are used for processing data I/O.
- **Global Scale-Out (GS):** The backend JBODs can be scaled-up, the Data Controllers can be scaled-out, and the Service Controllers can be scaled-out. Archiving super flexible scalability from three layers and two dimensions, fulfilling various requirements of capacity and performance.
- **Equal Length Internal I/O Routing(ELIR):** Any I/O routed between Service Controllers and Data Controllers travel the same length before reaching the targets, which makes all I/O's latency the same and predictably controllable. The traffic caused by cache mirroring operations won't consume the bandwidth of any of the two internal exchange planes.
- **Modular Global Redundancy(MGR):** The whole system can tolerate a suddenly failure or outage of one or more front-end Service Controllers without any impact on business applications. The whole system's availability is significantly improved.

Industry-leading performance, high scalability and broad compatibility

- **Superior performance:** Up to 32 quad-core processor, 512GB

cache, providing ultra-high I/O performance and low processing latency. (SPC1: 300,000 IOPS with 7ms latency)

- **Excellent scalability:** Up to 16PB of total storage capacity, including the internal capacity built-up of 2400 disks, and the virtualization capacity built-up of external third-party storage devices.
- **Broad compatibility:** Compatible with dozens of mainstream enterprise operating systems. Heterogeneous hosts can be offered with high quality services.

Comprehensive value-added software functionalities

- **Rich data protection features:** Snapshot, Lun mirror, LUN copy, remote replication and others. Data protection operations can be implemented online.
- **Multi-level protection:** Flexible RAID levels, data coffer feature ensures the cached data automatically be written to disks after power outage; disk pre-copy technology ensures the data on an unstable disk be copied out to hot-spare disk before its broken, avoiding the rebuilding procedure;

Power saving feature

- **Disk spin-down function:** The advanced disk hibernation technology, keeping all disks that have no workload in sleeping status, thus saving 30% power, significantly save operating costs.

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Technical Specifications

Model	S8100
Number of processors (min/max)	8/48 quad-core processors
Number of nodes	2-8
Cache size (min/max)	160GB to 1024GB
Host ports types	8Gbps FC host ports 1Gbps iSCSI host ports
Max Number of host ports	64 8Gbps FC ports or 80 GE ports
Disk port type	FC-AL or SAS
Number of disks (min/max)	24/2400
Disk types	Solid state drive: 100GB FC: 300/450/600 GB (15,000 rpm) SAS: 300/450/600 GB (15,000 rpm) SATA: 1 TB /2TB (7,200 rpm)
RAID levels	0, 1, 3, 5, 6, 10, 50
Storages that can be Virtualized	Huawei Symantec, EMC, IBM, Sun, HP, HDS and others
Software functionalities	Snapshot, Lun Mirror, Lun copy, Sync/Async replication, Multipath, HostAgent, Consistency Group
Operating system compatibility	Windows, HP-UX, IBM-AIX, Solaris, Linux
Dimensions (height x width x depth)	2050 mm x 606 mm x 1118 mm (for each cabinet and 14 cabinets in total)
Maximum weight	System cabinet < 449 kg; Cabinet for expansion < 694 kg
Dry bulb temperature	Operating: 5°C to 40°C Non-operating: -40°C to +70°C
Relative humidity	Operating: 5%–85% Non-operating: 5%–95%
Power supply	AC: 200–240 V (50/60 Hz) , DC: -48V ~ -60V
Electrical power kva (max)	31040

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