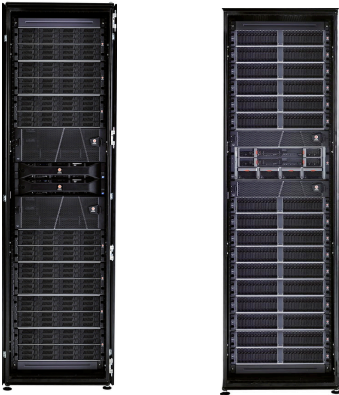


# Data Sheet



Huawei Symantec

## Oceanspace N8000 Series Unified Storage System



Huawei Symantec Oceanspace N8000 series is a unified storage platform (NAS, FC SAN, and IP SAN) designed for mid-range and high-end storage applications. The N8000 features advanced architecture, robust reliability, superb scalability, high performance, and ease of management. The N8000 meets the requirements for high-performance computing, databases, websites, file services, streaming media, video surveillance, and file backup. As an industry-leading clustered NAS storage system, the N8000 is widely deployed in fields such as manufacturing, government, enterprise, education, telecom, broadcast & television, and Internet.

### Product Features

#### Robust Reliability

- Supports clustered NAS engine nodes in active/active mode.
- Uses a full redundancy design to ensure 99.999% availability.
- Uses hot-swappable components.

#### Superb Scalability

- Ease of installation and operation.
- Provides up to 16 NAS engine nodes to integrate multiple file servers and mass storage on a single platform.
- Delivers near-linear performance improvement as the number of NAS engine nodes increases.
- Provides up to 15 PB capacity.

#### High Performance

- Provides high performance for computing clusters.
- Leverages a single file system spanning all storage units to deliver GB-level throughput and process frequent I/Os.
- Provides flexibility for balancing different physical resources (CPUs, cache, network bandwidth, and hard disk bandwidth) as the number of storage nodes is scaled. The N8000 is suitable for those computing clusters that have thousands of nodes and demanding NFS access.

#### Rich Value-Added Features

- Reduces investment costs with Dynamic Storage Tiering (DST) by automating data migration among different storage media according to file access frequency.
- Provides all-around data protection approaches such as snapshot, synchronous mirroring, remote replication, and deduplication.
- Enhances backup performance with built-in Symantec NetBackup Client on NAS engine nodes.
- Possesses LUN features such as LUN copy, virtual snapshot, and synchronous/asynchronous remote replication.

#### Comprehensive Functions

- Supports block and file protocols for Ethernet and FC interfaces.

#### Easy Management

- Offers unified management of NAS engine nodes and storage units.
- Reduces customer management costs with the wizard-based Integrated Storage Manager (ISM) software.
- Enables automatic deployment of newly-added NAS engine nodes.
- Improves troubleshooting efficiency with fault monitoring and alarming (by email, SNMP, or Syslog).
- Simplifies maintenance and lowers TCO through the elimination of backup client software on hosts.

## Technical Specifications

Model		N8300	N8500
<b>Basic Specifications</b>			
Architecture	Active/Active multi-node cluster		
Number of nodes	2 to 6	2 to 16	
Cache per node	16GB; scalable to 48GB	16GB; scalable to 96GB	
SAN Connectivity	4Gb FC, 8Gb FC, 10GE iSCSI, 1GE iSCSI		
NAS Connectivity per node	GE ports: 4 to 8; 10GE ports: 2 to 4	GE ports: 4 to 16; 10GE ports: 2 to 6	
RAID level	0,1,10,5,6,50		
Disk type	SAS/SATA/SSD/NL-SAS		
Redundant components	Fibre channels, controllers, power supplies, fans, UPSs and disk enclosures		
Hot spare protection	Global hot spare, disk precopy		
Power failure protection	Supported		
Maximum capacity	7PB	15PB	
<b>Supported Protocols</b>			
Network	NFS V2/V3, Microsoft CIFS, iSCSI, FC, FTP, HTTP		
Storage	FC-AL, FC-Fabric		
Data backup	NDMP		
Access control	UNIX NIS, Microsoft Active Directory, LDAP		
Network management	SNMP		
<b>Software Specifications</b>			
Maximum file system size	Dynamically expandable, up to 256TB		
Quotas	User-specific or user group-specific soft and hard quota management of NFS or CIFS share		
Value-added software	DST, deduplication, snapshot, mirror, virtual snapshot, LUN copy, synchronous/asynchronous remote replication, built-in Symantec NetBackup Client		
Maximum snapshots per file system	512		
<b>Host Compatibility</b>			
Operating system	Windows, Linux, Mac, Solaris, AIX and HP-UX		
<b>Management Features</b>			
Management method	GUI, CLI		
Resource management	Dynamic expansion of capacity, performance, and file systems Stripe depth: 128KB/256KB/512KB/1,024KB/2,048KB		
Fault alarm	Email, SNMP, Syslog		
<b>Physical Characteristics</b>			
Power supply	AC: 100V to 127V, 200V to 240V		AC: 100V to 127V, 200V to 240V DC: -48V to -60V
Power consumption	(NAS engine)	≤ 870W (single node)	≤ 830W (dual-node cluster)
	(Storage unit)	Controller enclosure: ≤ 830W; Disk enclosure: ≤ 550W	
Dimensions (HxWxD)	(NAS engine)	2U, 86.4 mm x 482.4 mm x 720.6 mm (single node)	4U, 175 mm x 446 mm x 502 mm (dual-node)
	(Storage unit)	2U, Controller enclosure: 86.1 mm x 446 mm x 582 mm 4U, Controller enclosure: 175 mm x 446 mm x 502 mm 2U, Disk enclosure: 86.1 mm x 446 mm x 412 mm 4U, Disk enclosure: 175 mm x 446 mm x 412 mm	
Weight	(NAS engine)	Clustered NAS engine: ≤ 26 kg/node	Dual-node clustered NAS engine: ≤ 43.6 kg



**Huawei Symantec**

**Huawei Symantec Technologies Co., Ltd.**

20400 Stevens Creek Blvd., Suite 200, Cupertino, CA 95014 USA

Tel: 408-459-4000 Toll Free: 877-618-4762 Fax: 408-459-4200

Email: [infoUS@huaweisyntec.com](mailto:infoUS@huaweisyntec.com)

[www.huaweisyntec.us](http://www.huaweisyntec.us)