

OceanStor S2600T Unified Storage System



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HUAWEI OceanStor S2600T V2 storage systems is oriented to entry level storage applications. It adopts a converged architecture, a unified platform, and a variety of protocols. With industry-leading performance, unique features, and efficient use of resources, S2600T provides comprehensive high-performance solutions applicable to scenarios such as large-database OLTP/OLAP, high-performance computing, digital media, Internet applications, central storage, backup, disaster recovery, and data migration, maximizing return on investment (ROI).

Product Features

Converged and Unified

- Heterogeneous virtualization: consolidates storage devices from mainstream vendors to manage and allocate storage resources in a flexible and unified manner.
- Unified storage of file- and block-level data: supports SAN and NAS protocols, allowing structured and unstructured data to be stored in one storage system.
- Convergence of storage protocols: supports diversified storage networks and protocols such as iSCSI, Fibre Channel, NFS, CIFS, HTTP, and FTP.

Various Functions

- SmartQoS: intelligently schedules storage resources based on priorities of services to optimize resource allocation.
- SmartPartition: sets cache partition goals for mission-critical services, dynamically allocates cache resources to services based on the goals, and isolates cache resources of services, preventing unnecessary cache contention and ensuring performance of mission-critical services.
- SmartMotion: dynamically migrates data based on service changes to balance loads within the storage system.
- SmartTier: intelligently relocates data among different storage tiers based on data activities to optimize performance.
- SmartVirtualization: consolidates heterogeneous storage devices from mainstream vendors to maximize ROI and improve resource efficiency.

- SmartThin: supports automatic capacity expansion, improves disk utilization, and allows on-demand purchase, reducing initial purchase cost.
- SmartMigration: migrates LUN data without interrupting services and dynamically adjusts migration rate based on service load, ensuring smooth device replacement and system upgrade.
- SmartErase: allows users to erase confidential data from storage media, preventing key information from being leaked.
- Second-level RPO: provides the industry's most reliable data protection.

Flexible and Reliable

- Industry-leading I/O scalability and flexibility: supports 8 Gbit/s Fibre Channel, 16 Gbit/s Fibre Channel, 1 Gbit/s iSCSI, 10 Gbit/s iSCSI (TOE), and 6 Gbit/s SAS ports.
- Hot-swap design: provides hot-swappable controllers, fan modules, power modules, I/O modules, and disks, and supports I/O expansion without affecting services.
- Highly reliable architecture: makes all components redundant to prevent single points of failure, and adopts technologies such as data coffer and disk health check to enhance system reliability.
- Application optimization: collaborates with host agent software to implement application-level backup, disaster recovery, and disaster recovery verification, and supports mainstream application systems such as Oracle, DB2, Exchange Server, and SQL Server.

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Technical Specifications

Model	S2600T
Basic Specifications	
Storage processor	Multi-core processors
Cache size per controller	8 GB
Front-end port types	8 Gbit/s Fibre Channel, 16 Gbit/s Fibre Channel, 1 Gbit/s iSCSI, 10 Gbit/s iSCSI (TOE)
Back-end port types	4 x 6 Gbit/s SAS 2.0 wide ports
Host connectivity per controller	6 x 1 Gbit/s iSCSI port + 4 x 8 Gbit/s FC port or 2 x 16 Gbit/s FC port or 4 x 1 Gbit/s iSCSI port or 4 x 10 Gbit/s TOE port
Max. number of disk slots	276
Disk types	SAS, NL-SAS, SSD
RAID levels	0, 1, 3, 5, 6, 10, 50
Maximum number of LUNs	512
Maximum number of Hosts	FC Port: 2048, iSCSI Port: 256
TurboModule	Supported
Supported operating systems	AIX, HP-UX, Solaris, Linux, Windows
Key software features	
Data protection software	HyperSnap (snapshot), HyperCopy (LUN copy), HyperClone (clone), HyperReplication (remote replication with support for second-level RPO), HyperMirror (volume mirror)
Mission-critical service protection	SmartQoS (intelligent QoS control), SmartPartition (intelligent partitioning)
Resource efficiency improvement	SmartTier (intelligent data storage tiering), SmartCache(intelligent data caching), SmartThin (intelligent thin provisioning), SmartMotion (intelligent data motion), SmartMulti-tenant (multi-tenant), SmartMigration (LUN data migration), SmartErase (LUN data destruction), Data Reduction (data volume downsizing)
Storage management software	UltraPath (multipathing management), Cloud Service (remote O&M), ReplicationDirector (disaster recovery management software)

Model	S2600T
Virtualization features	
Heterogeneous virtualization	Consolidation of storage devices from mainstream vendors to manage and allocate storage resources in a flexible and unified manner
Block virtualization	Balanced data distribution, quick fault recovery
Support for computing virtualization	Support for virtual machines such as VMware, Citrix, and Hyper-V Value-added features related to virtual environments: support for VMware VAAI and integration of vSphere and vCenter
File engine	
File engine architecture	Clustered multi-controller architecture
Number of file engine nodes	2
Cache size per node	16 GB
Fibre Channel ports per node	4 x 8 Gbit/s (for connecting to block storage)
Host ports per node	4 x 2 x 10 Gbit/s iSCSI or 4 x 4 x 1 Gbit/s iSCSI
Max. number of files per file system	30 million
File system software	DST (dynamic storage tiering), Snapshot (file system snapshot), Replication (file system remote replication)
OS compatibility	AIX, HP-UX, Solaris, Linux, Windows
Physical specifications	
Power supply	AC: 100 V to 127 V or 200 V to 240 V
Dimensions (H x W x D)	2 U controller enclosure: 86.1 mm x 446 mm x 582 mm 4 U disk enclosure: 175 mm x 446 mm x 412 mm 4 U high-density disk enclosure: 176.5 mm x 446 mm x 790 mm 4 U File engine: 175 mm x 446 mm x 502 mm
Weight	2 U controller enclosure ≤ 22.98 kg 4 U disk enclosure ≤ 25.2 kg 4 U high-density disk enclosure ≤ 35 kg
Operating temperature	5°C to 40°C at altitudes below 1800 m 5°C to 30°C at altitudes from 1800 m to 3000 m
Operating humidity	5% RH to 90% RH

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