

# OceanStor S2600T Storage System



OceanStor S2600T

Huawei OceanStor S2600T is a brand new storage product designed for entry-level storage applications in enterprises. It provides industry-leading hardware specifications and incorporates a rich set of advanced features and technologies, including miscellaneous interface integration, flexible networking and hot swapping (TurboModule), three-layer performance acceleration (TurboBoost), and multi-level data protection. In addition, it is able to meet the increasingly demanding and complicated requirements of various applications at a low price, which can merely afford an entry-level storage product. The applications include database OLTP/OLAP, digital media, video surveillance, and centralized storage, backup, disaster recovery, and data migration. These features altogether can ideally protect customers' service security and continuity.

## Product Features

### High Performance and Scalability

- Industry-leading hardware specifications: The S2600T carries several 64-bit multi-core processors, provides high-speed mass cache and 16 GB/s bandwidth for internal data exchange, and supports SAS 2.0 wide-port rear-end channels to eliminate hardware bottlenecks
- Multiple supported disk types: The S2600T supports SAS, NL SAS, SATA, and SSD disks
- On-demand initial configuration and expansion: The S2600T supports on-demand storage expansion for ever-increasing storage requirements. The exclusive TurboModule technology can dramatically increase I/O module density with up to 24 I/O ports (both on the front and rear ends). It supports 8 Gbit/s FC ports, GE/10GE ports, and 6 Gbit/s SAS 2.0 ports. Users can flexibly deploy SAS, NL SAS, SATA, and SSD disks to implement various storage applications according to the data importance and security level with minimum maintenance costs
- Customizable performance acceleration by TurboBoost: The S2600T provides super high performance with its leading hardware specifications. Also, it uses the SmartCache technology to continuously monitor hotspot data and cache it to SSDs for read performance acceleration, and supports SSD-based RAID groups for overall performance acceleration. The three-layer performance acceleration feature can improve system performance on demand and reduce the TCO

### High Reliability and Availability

- Hot-swappable modules: The TurboModule technology can implement hot swapping for controllers, fans, power supplies, I/O modules, BBUs, and disk modules without compromising ongoing user services. Meanwhile, it supports online I/O expansion
- Power failure protection: Internal BBUs modules can automatically write cache data to coffer disks upon power failures for data protection
- Disk pre-copy: The S2600T can proactively detect failing disks and transfer their data for backup, preventing system degradation and reducing data loss risks

- Integrated data protection: The S2600T can create snapshots for different application data by using the HyperImage and host agent technologies and supports instant data recovery from the created snapshots. Also, it uses the HyperClone and HyperCopy technologies for local data backup and restoration, the cross-platform volume replication technology for protecting the data between heterogeneous storage systems, and the remote replication technology for remote data backup and disaster recovery

### Outstanding Efficiency, Economy, and Ease-of-Use

- Low purchase cost: The S2600T provides the performance, scalability, and features owned by mid-range storage systems merely at a very low cost, which normally can barely afford an entry-level storage product
- Automatic thin provisioning: The HyperThin technology supports automatic capacity expansion for improved disk utilization and on-demand product procurement, reducing the initial acquisition cost and TCO
- Easy-to-use management and maintenance tool: The ISM supports five-step initial configuration and provides alarm notification by sound, indicator, SMS, and email. Also, it supports online one-click firmware upgrade for reduced O&M costs

### Energy Saving

- Hard disk energy saving: The S2600T supports intelligent disk spin-down according to service load and can reduce the power consumption by up to 40%
- 16-gear intelligent fan speed control: The S2600T can intelligently tune the fan speed according to the operating temperature. This reduces fan power consumption and noise to enhance the environmental adaptability of the S2600T
- Intelligent CPU frequency control: The S2600T can reduce the CPU operating frequency as the service load decreases to lower the overall power consumption

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## Technical Specifications

Model	S2600T
<b>Hardware Features</b>	
Processor	Several multi-core processors
Cache	8GB/16GB
Max. SmartCache capacity	1.2TB
Number of controllers	2
Front-end port type	8Gbit/s FC, GE/10GE (iSCSI)
Back-end port type	SAS 2.0 wide port
Number of onboard I/O ports	12 x 1Gbit/s front-end iSCSI ports 4 x SAS 2.0 rear-end SAS wide ports
Number of expansion I/O modules	2 (each module provides four 8Gbit/s FC/four GE iSCSI/two 10GE iSCSI ports)
Max. number of disk slots	204
Supported disk type	SAS, NL SAS, SATA, SSD
<b>Software Features</b>	
Supported RAID level	0, 1, 3, 5, 6, 10, 50
Supported number of LUNs	512
Supported number of snapshots	256
Support TurboModule	Yes
Value-added feature and software	HyperImage, HyperCopy, HyperClone, HyperMirror, HyperThin, UltraPath, DiskGuard, SmartCache
Compatible operating system	AIX, HP-UX, Solaris, Linux, Windows, VMware
<b>Physical Specifications</b>	
Power supply	AC: 100V ~ 127V or 200V ~ 240V DC: -48V ~ -60V
Power consumption	2 U controller enclosure ≤ 380W (with 12 SAS disks) 4 U disk enclosure ≤ 441W (fully configured with 600GB SAS disks)
Dimensions (H%W%D)	2 U controller enclosure: 86.1mm%446mm%582mm 4 U disk enclosure: 175mm%446mm%412mm
Weight	Controller enclosure ≤ 22.98kg Disk enclosure ≤ 25.2kg

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