

OceanStor T Series Unified Storage Systems



OceanStor T series unified storage

As Huawei's new-generation mid-range and high-end storage products, the OceanStor T series unified storage (T series) provides converged architecture, protocols, and platforms. With leading performance, unique features, and efficient resource utilization, the T series offers comprehensive high-performance solutions. Maximizing customer ROI, the T series applies to OLTP/OLAP databases, high performance computing (HPC), digital media, Internet-based operating, central storage, backup, disaster recovery, and data migration.

Highlights

Converged and unified

- Multi-controller architecture: Enables scale-out linear performance growth, meeting business development requirements.
- Heterogeneous virtualization: Consolidates storage resources of heterogeneous devices for unified management and flexible allocation.
- Converged file and block storage: Integrates SAN and NAS protocols and supports both structured and unstructured data.
- Converged storage protocols: Supports multiple storage networking modes and protocols, including iSCSI, FC, NFS, CIFS, HTTP, and FTP.

Various functionalities

- SmartQoS: Intelligently allocates storage resources based on service priority to optimize resource utilization.
- SmartPartition: Sets cache partition objectives for key services and dynamically allocates cache resources based on the objectives. Cache resources of each service are separated to prevent malicious contention and ensure high performance of important services.
- Second-level RPO: Implements highest-level data protection and enables seconds of RPO.
- SmartMotion: Dynamically relocates data based on service changes to load balance storage system pressure.

- SmartTier: Intelligently migrates data among different storage tiers based on data activity level to diversify the storage performance.
- SmartThin: Thin provisions storage space to improve disk utilization and lower purchase costs.

Flexible and reliable

- Leading I/O scalability and flexibility: Supports 8 Gbit/s FC, 1 Gbit/s iSCSI, 10 Gbit/s iSCSI (TOE), 10 Gbit/s FCoE, and 6 Gbit/s SAS ports.
- Hot swap design: Allows controllers, fan modules, power supply modules, I/O modules, and disks to be swapped and expanded online without affecting services.
- High-reliability architecture: Employs redundancy design for all components to eliminate single point of failure and data vault and disk health check technologies to further improve system reliability.
- Application-aware optimization: Collaborates with the HostAgent 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.