



OceanStor 5310/5510/5610 New-Gen Hybrid Flash Storage Systems

Huawei's New-Gen OceanStor 5310/5510/5610 Hybrid Flash Storage Systems are mid-range products designed for the future data centers.

Designed to help users achieve their business goals, they adopt Huawei's proprietary algorithms to efficiently deploy data across media, fully utilizing the SSD space to accelerate mission-critical data. Their comprehensive convergence and value-added features deliver leading system efficiency and reliability, while the built-in Insight module provides intelligent prediction. The systems supercharged by the features provide diversified storage services to users, ideal for the finance, government, manufacturing, education, healthcare, energy, and media entertainment sectors.

Endless Evolution

- Huawei OceanStor 5310/5510/5610 storage supports hybrid workloads such as blocks, files, virtualization, and containers, which meets the users' elastic service development requirements, improves storage resource utilization, and effectively reduces the total cost of ownership (TCO). In addition, balanced SAN and NAS services, supercharged by the Hyper and Smart features, provide diversified data protection and efficiency improvement capabilities for block and file systems. This provides users with comprehensive services.
- Industry's only gateway-free active-active solution for both SAN and NAS reduces the number of faulty nodes, simplifies deployment, and improves system reliability. In addition, the active-active deployment implements load-balancing active-active mirroring and non-disruptive cross-site failover, freeing users from the worry of system breakdown. What's more, the 3DC and 4DC data recovery (DR) solutions are also optional for even higher reliability.
- The combination of private and public clouds, cloud backup, and container services have supercharged the user's smooth migration of data to the cloud.
- The ransomware protection solution that features the Air Gap technology and high-density snapshots can effectively defend against ransomware attacks and support fine-grained data restoration.*

Flash-Like Performance

- The global cold and hot data perception and data collaboration algorithms that support self-learning in all scenarios are used to detect changes in service models and cold and hot data, helping promptly locate hot data in all scenarios.
- Elastic convergence of cache and tiers resolves challenges faced in the traditional practice and fuels the hot data acceleration, which results in optimal data layout and simplified configuration.
- Redirect-on-write (ROW) large block sequential write: Multiple small block discrete writes are aggregated into one consecutive large block write, reducing write amplification and ensuring stable write performance in all RAID arrays.
- Low-latency RDMA connections among multiple controllers and fully-balanced active-active architecture enable a single LUN to deliver more than 90% of the system performance.
- End-to-end NVMe architecture: Storage supports 32Gb FC-NVMe/25Gb RoCE at the front end and 100Gb RDMA at the back end, which realizes end-to-end data acceleration and enables latency as low as 0.05 ms.
- The global distributed file system distributes subdirectories on multiple controllers, which relieves the performance pressure of frequent access to a large number of small file directories. Two layouts of metadata sequence tables and hash tables improve the system OPS by 30%.

Cost Effectiveness

- Fewer SSDs and NL-SAS disks provide equivalent disk performance as SSDs + SAS or SSDs + SAS + NL-SAS.
- Data flows from edge to core across storage systems (high-end, mid-range, entry-level) and convergence of all-flash, hybrid flash, and backup storage reduce storage costs because no gateway or additional software is required.
- Predictable, scalable, and high-performance storage infrastructure meets the requirements of unpredictable business growth. Huawei OceanStor 5310/5510/5610 storage supports a maximum of 16 controllers, resulting in a linear increase of IOPS and storage capacity.
- DME interconnects with Ansible and mainstream IT Service Management platforms like ServiceNow, reducing O&M costs.

For More Information

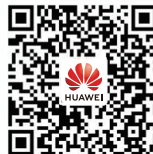
To learn more about Huawei storage, please contact your local Huawei office or visit the Huawei Enterprise website: <http://e.huawei.com/en/>.



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