HUAWEI eKit

Data Sheet

OceanStor Dorado 200 All-Flash Storage System



Huawei OceanStor Dorado 200 is an entry-level storage system in the OceanStor Dorado all-flash series. It features an innovative hardware platform and FlashLink® intelligent algorithms, which combine to deliver a 50% higher performance than the previous generation. Intelligent algorithms are built into the storage system to make storage services more intelligent and efficient. Furthermore, the active-active (A-A) architecture and simplified graphical user interface (GUI) design improve reliability and simplify deployment and operations and maintenance (O&M).

Excelling in application scenarios such as virtualization, databases, office automation (OA), and branch offices, Huawei OceanStor Dorado 200 all-flash storage is a trusted option for customers in sectors such as carrier, finance, government, healthcare, and manufacturing. The fast and stable storage system provides cost-effective services, making it ideal for the IT applications of small and medium-sized businesses (SMBs).

Product Highlights

Simplified:

Simplified configuration and O&M with higher efficiency

- Efficient service configuration in three steps
- Intelligent alarm detection, remote handling, and AI-based capacity and performance prediction
- 33% reduction in physical space



Efficient and Reliable:

Intelligent algorithms for better system performance and E2E reliability design for 24/7 service continuity

- FlashLink® intelligent algorithms
- Comprehensive features that enable more reliable storage
- Four-layer reliability assurance for disks, architectures, systems, and solutions, ensuring 24/7 service continuity

Energy Saving:

30%+ lower power consumption thanks to the optimized all-flash architecture

- 30% lower power consumption: 690 W → 530.5 W
- SoC design that greatly reduces power consumption

Simplified

Simplified configuration: A brand new GUI greatly simplifies the configuration process. OceanStor Dorado 200 all-flash storage supports storage system configuration through mobile device scanning and enables resource readiness in just five minutes without assistance from dedicated personnel. This is ideal for SMBs that require simple and easy-to-use IT systems.

Simplified O&M: OceanStor Dorado 200 all-flash storage uses the iMasterCloud DME IQ Intelligent Cloud Management Platform for O&M functions such as intelligent alarm detection, remote handling, and AI-based capacity and performance prediction, greatly simplifying O&M and improving user experiences. The iMasterCloud DME IQ Intelligent Cloud Management Platform draws from Huawei's years of expertise in device O&M and uses incremental training and deep learning algorithms. This enhances device O&M and improves user experiences.

Compact structure: OceanStor Dorado 200 all-flash storage is only 410 mm long and takes up 33% less physical space than the previous generation. It can be placed snugly in a network cabinet and can easily be carried by one person.

Efficient and Reliable

FlashLink® intelligent algorithms: With the innovative FlashLink® intelligent algorithms, OceanStor Dorado boosts system performance through collaboration between controllers, and SSDs.

- ✓ **Many-core algorithm:** The many-core computing capability of controllers enables more than double the computing power, maximizing data processing capabilities.
- ✓ **Intelligent cache:** When a large number of I/Os with a specific pattern are input, the system can proactively identify and prefetch data, enhancing the cache hit ratio and accelerating batch processing response.
- ✓ **Sequential writes of large data blocks:** Multiple discrete data blocks are aggregated into larger ones before being written to disks, reducing write amplification and ensuring stable performance.
- ✓ **Independent metadata partitioning:** Performance loss caused by garbage collection is effectively controlled to achieve stable performance.
- ✓ **I/O priority adjustment:** Resources are allocated based on I/O types to prioritize read and write I/Os, thereby reducing access latency.

A compact body with comprehensive functions: Despite being an entry-level all-flash storage system, OceanStor Dorado 200 all-flash storage offers comprehensive SAN features comparable to mid-range models, meeting the service needs of most SMBs.

Scalable performance: Storage systems must be able to scale performance to meet ever-changing service needs. OceanStor Dorado 200 all-flash storage supports scale-out to eight controllers. The IOPS increases linearly as the number of controller enclosures increases, meeting the performance requirements of service development.

E2E full redundancy design: The redundancy design for interface modules, controllers, and disks ensures E2E service continuity.

99.9999% reliability: Four-layer reliability assurance for disks, architectures, systems, and solutions ensures 24/7 service continuity.

Non-disruptive upgrade (NDU): OceanStor Dorado 200 all-flash storage supports load balancing and NDU. Host services are not affected and links are not interrupted during upgrading.

Energy Saving

All-flash media: Huawei's all-flash architecture boasts 30% lower storage power consumption and 20% lower OPEX than the industry average.

Low-power platform: System-on-chip (SoC) design significantly reduces the power consumption of the mainboard.

Intelligent heat dissipation: Fans enable automatic speed adjustment and rapid cooling, boosting energy efficiency by 4%–9%.

Technical Specifications

Model	OceanStor Dorado 200
Hardware Specifications	
Maximum Number of Controllers	8*
System Cache (Dual-Controller)	64 GB
Maximum Cache (Expand with Controllers)	64 GB - 256 GB
Supported Storage Protocols	FC, iSCSI
Front-End Port Types	16/32 Gbps FC, 1/10/25 GbE
Back-End Port Types	SAS 3.0
Maximum Number of Hot-Swappable I/O Modules per Controller Enclosure	4
Maximum Number of Front-End Ports per Controller Enclosure	28
Maximum Number of SSDs (Dual-Controller)	100
SSDs	960 GB/1.92 TB/3.84 TB/7.68 TB SAS SSD 3.84 TB/7.68 TB Capacity-Optimized SAS SSD
Software Specifications	
Supported RAID Levels	RAID 5, RAID 6, RAID 10, and RAID-TP (tolerating simultaneous failures of 3 SSDs)
Maximum Number of LUNs	2048
Value-Added Features	SmartDedupe, SmartCompression, SmartThin, SmartQoS, SmartErase, SmartMigration, HyperSnap, HyperReplication, HyperClone, HyperEncryption, HyperMetro, HyperCDP
Storage Management Software	DeviceManager, UltraPath, OceanStor BCManager, iMasterCloud DME IQ
Physical Specifications	
Power Supply	Controller enclosure: 100 V–240 V AC ± 10%, 192 V–288 V DC Disk enclosure: 100 V–240 V AC ± 10%, 192 V–288 V DC
Dimensions (H x W x D)	Controller enclosure: 86.1 mm x 447 mm x 410 mm Disk enclosure: 86.1 mm x 447 mm x 410 mm
Weight (Incl. Disk Units)	Controller enclosure: ≤ 22.65 kg Disk enclosure: ≤ 20 kg
Operating Temperature	–60 m to +1800 m altitude: 5° C to 35° C (cabinet) or 40° C (enclosure) 1800 m to 3000 m altitude: The max. temperature threshold decreases by 1° C for every altitude increase of 220 m
Operating Humidity	10% RH to 90% RH

*Contact Huawei sales staff if you need this specification.

To learn more about Huawei storage for distribution business, please contact your local Huawei office or visit the Huawei eKit website: http://ekit.huawei.com.

HUAWEI eKit App

HUAWEI eKit – Data Storage Mall

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