

OceanStor Dorado2100 Solid State Storage System



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Huawei OceanStor Dorado2100 is an FC SAN solid state storage array for the enterprise-class high performance market. The Dorado2100 relies entirely on solid-state storage technology, and features advanced cache management and an advanced I/O scheduling algorithm to deliver unsurpassed performance. It increases application memory requirements for querying and searching large databases, as well as for processor-intense calculations and image editing.

Product Features

Outstanding Performance

- IOPS: The Dorado2100 delivers 100,000 SPC-1 IOPS™ – a performance equal to traditional arrays with 250 15K RPM SAS disks
- Access Speed: Access latency is a low 600 μ s, just 8% of traditional arrays. (92% lower latency than traditional arrays)

Energy Savings

- Low power consumption: The system uses a typical of 350 W, an energy savings of up to 90% over traditional arrays with equivalent performance
- Intelligent CPU clock speed control: The Dorado2100 intelligently controls the clock frequency of the CPU based on processor workload
- 16-speed intelligent fan speed control: Fan speed is regulated intelligently based on system temperature to reduce fan noise and power consumption, thus increasing the environmental flexibility of the equipment

Stable and Reliable

- Media safeguards: Technologies such as wear leveling, bad block management, and random scrambling greatly extend media service life to deliver an MTBF of greater than 1 million hours

- Data protection: The Dorado2100 uses rigorous 32-bit error correcting code (ECC) in 1-KB blocks and a threshold warning function so that errors are corrected as soon as they are discovered. A variety of RAID levels are also offered to further improve data reliability
- Redundant architecture: The dual Active/Active controller provides interruption-free redundancy to ensure operational reliability and availability

Lower TCO

- Protect your investment: There is no need to change software versions or your current application architecture. This means you can easily incorporate the Dorado2100 into your existing IT architecture while continuing to leverage your investment
- Reduce power use: Enjoy the benefits of memory system power savings of 90% annually
- Save space: The Dorado2100 uses 95% less space than traditional arrays with equivalent performance, greatly reducing cabinet costs
- Simplify management: The Dorado2100 offers user-friendly management and maintenance, supports both GUI and CLI management methods, supports visual, text message, and email warnings, and delivers one-key online firmware upgrades effectively reducing maintenance costs

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Product Specifications

Model	Dorado2100
Hardware Features	
Front-end port type	8Gbps FC
Back-end port type	6Gbps SAS 2.0 wide ports
Number of onboard I/O ports	8 x 8Gbps FC
Maximum number of expansion I/O modules	2
Number of expansion I/O module ports	4 x 8Gbps FC
Supported Capacity	SLC: 1.2TB/2.4TB/4.8TB eMLC: 4.8TB/9.6TB
Performance	
Maximum bandwidth	5.6GB/s
Maximum IOPS	200,000
SPC-1 IOPS™	100,051.99
Access latency	600µs
Software Features	
RAID support	0, 1, 3, 5, 6, 10, 50
Number of hosts supported	512
Number of LUNs supported	2,048
Multipath software	UltraPath
Physical Specifications	
Power	AC: 100V to 127V or 200V to 240V
Typical power consumption	SLC: 350W eMLC: 410W
Dimensions (H%W%D)	2U, 86.1mm%582mm%446mm
Weight	≤27.5kg
Operating temperature	When the altitude is lower than 1800m: 5°C to 40°C When the altitude is 1800m to 3000m: 5°C to 30°C

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HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base
Bantian Longgang
Shenzhen 518129, P.R. China
Tel: +86-755-28780808

www.huawei.com