OceanStor Dorado5100
Solid State Storage System

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Huawei OceanStor Dorado5100 is an SAN solid-state storage array for the enterprise-class high performance storage market. The Dorado5100 adopts exclusively solid-state storage as its system architecture as well as the dual-controller design to provide a compelling user experience. The Dorado5100 can meet the requirements of various applications such as large-scale database, high-performance computing, and VDI for highly reliable and high-performance storage.

Product Features

Outstanding Performance

- **IOPS**: The Dorado5100 delivers 600,052.49 SPC-1 IOPS™ – a performance more than traditional arrays with 2000 15K RPM SAS disks
- **Access Speed**: Access latency is a low 500 μs, just 5% of traditional arrays

Energy Savings

- **Low power consumption**: Tapical consumption as low as 110 W/U, an energy savings of up to 90% over traditional arrays with equivalent performance.
- **Intelligent CPU clock speed control**: The Dorado5100 intelligently controls the clock requency 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, increasing the environmental flexibility of the equipment

Stability and Reliability

- **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 Dorado5100 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 Dorado5100 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 Dorado5100 uses 95% less space than traditional arrays with equivalent performance, greatly reducing cabinet costs
- **Simplify management**: The Dorado5100 offers user-friendly management and maintenance, supports both GUI and CLI management methods, supports visual, text message, and email warnings

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Product Specifications

Model	Dorado5100
Hardware Specifications	
Number of controllers	2
Controller working mode	Active-Active
Front-end port type	8Gbps FC / 10GE (iSCSI)
Back-end port type	6Gbps SAS 2.0 wide ports
Maximum number of expansion I/O modules	12
Disk enclosure type	SLC: 2.4 TB/enclosure SLC: 4.8 TB/enclosure eMLC: 4.8TB/enclosure eMLC: 9.6TB/enclosure
Maximum number of disk enclosures	4
Performance	
Maximum. bandwidth	12GB/s
Maximum IOPS	1,000,000
Access latency	500μs
SPC-1 IOPS™	600,052.49
Software Features	
RAID levels	0, 1, 5, 10
Supported host number	1024
Supported LUN number	2,048
Multipathing software	UltraPath
Functional software	HyperImage(snapshot), HyperMirror(remote replication A/S)
Physical Specifications	
Power supply	AC: 100V to 127V or 200V to 240V
Typical power consumption	SLC ≤ 110W/U eMLC ≤ 150W/U
Dimensions (H%W%D)	Controller enclosure: 175mm%446mm%502mm Disk enclosure: 86.1mm%446mm%412mm
Weight	Controller enclosure ≤ 43.6kg Disk enclosure ≤ 19.7kg
Operating temperature	When the altitude is lower than 1800m: 5°C to 40°C When the altitude is1800m to 3000m: 5°C to 30°C
Operating humidity	5% ~ 90% R.H