

Data Sheet



Huawei Symantec

Oceanspace™ Dorado2100



Huawei Symantec Oceanspace Dorado2100 (Dorado2100) is an FC-SAN solid-state storage product designed for the enterprise-level, high-performance storage market. Dorado2100 is designed with an SSD storage system architecture, advanced cache management, and I/O scheduling algorithm, to present stunning performance. It exceeds requirements for high-performance applications such as large database query/retrieval, high-performance computing, and video editing.

Product Features

Marvelous Performance

- **IOPS:** The Dorado2100 delivers a maximum of 170,000 IOPS, equal to the IOPS of traditional disk arrays with two hundred and fifty 15,000 rpm SAS disks.
- **Access latency:** $\leq 800 \mu\text{s}$ access latency, which is only 8% of the access latency of a traditional disk array.

Energy Saving

- **Low power consumption:** The Dorado2100, with a maximum power consumption of 320W, saves energy by 90% when compared to traditional storage arrays with similar performance.
- **Intelligent CPU frequency control:** The Dorado2100 intelligently adjusts the CPU frequency to the workload.
- **16-gear intelligent fan speed control:** Temperature-based intelligent fan speed control reduces the power consumption and fan noise, making the Dorado2100 adaptive to various environments.

High Reliability

- **Media protection:** The technologies of wear-leveling, bad-block management, and random scrambling code greatly prolongs the lifespan of the disk media (MTBF of Dorado2100 is more than 1 million hours).

- **Data protection:** The Dorado2100 adopts 32bit@1KB ECC and threshold pre-alarming functions to timely detect and correct errors. Additionally, the support of different RAID options improves data security.
- **Redundancy architecture:** The two redundant controllers concurrently process services in Active/Active working mode to ensure application reliability.

Low TCO

- **Protects original investment:** The Dorado2100 fits well into the existing IT infrastructure without requiring users to purchase tiering software or change application modes.
- **Reduced energy consumption:** The Dorado2100 reduces storage system energy consumption by 90% every year.
- **Smaller space:** The Dorado2100 reduces cabinet space by 95%, when compared with traditional storage arrays, sharply driving down the cabinet purchase cost.
- **Simplified management:** The Dorado2100 supports management and maintenance for GUI or CLI-based management. The GUI provides alarm notification by light, text message, or email. Additionally, the Dorado2100 enables the upgrade of dual controller firmware online in one-click mode, thereby considerably lowering operational and management costs.

Technical Specifications

Parameter	Dorado2100
Performance	
Maximum bandwidth	5.6GB/s
Maximum IOPS	170,000
Access latency	≤ 800 μs
Hardware Feature	
Host port type	8 Gb/s FC
Quantity and type of on-board host ports	Eight 8Gb/s FC
Maximum number of I/O modules (expansion)	2
Quantity and type of ports on an I/O module	Four 8Gb/s FC
Disk specifications	2.5-inch 50GB/100GB SLC SSD
Software Feature	
Supported RAID levels	0, 1, 3, 5, 6, 10, 50
Host quantity	512
LUN quantity	2,048
Multipathing software	UltraPath
Physical Specifications	
Dimensions (HxWxD)	Ω86.1 mm x 446 mm x 582 mm (3.4 in. x 17.6 in. x 22.9 in.)
Weight	23.9 kg (52.7 lb)
Operating temperature	-5°C to +55°C (23°F to 131°F) < 3,300 W (12 nodes)
Power Supply	90 V to 264 V AC -38 V to -75 V DC
Power consumption	320 W



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