OceanStor 18510-G/18810-G
High-end Hybrid Flash Storage System

Datasheet

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Product Overview

The OceanStor 18510-G/18810-G For relational database, distributed database, virtualization, container, cloud and other traditional and new applications, comprehensive leading convergence features, to provide more efficient and reliable data services for users' core services: Industry-leading Smart Matrix fully shared interconnect hardware architecture design, and Hyper Metro gateway free SAN and NAS integration A-A duplex, ring 3DC, two places four centers, to provide customers with 99.99999% reliability; Rich data security features to protect valuable data from ransomware; The dynamic adaptive hotspot data layout algorithm achieves efficient prefetch of hotspot data, and the end-to-end NVMe technology supports 100% performance improvement over the previous generation. DBStorage, a dedicated storage engine for distributed databases, releases database I/O load and helps users evolve to new data centers.

The OceanStor 18510-G/18810-G high-end hybrid flash storage is widely used in core database, virtualization, containerization and other core scenarios of operators, finance, government, manufacturing and other industries. It is also widely used in various cloud service scenarios and benefits all walks of life.

Technical Specification

Model Number	OceanStor 18510-G	OceanStor 18810-G
Hardware Specifications		
Controller Architecture	Multi-Controller Smart Matrix High-Speed Interconnection Architecture	
Maximum Cache (dual controller, scalable with controller)	512 GB-32 TB	1 TB-48 TB
Supported Storage Protocols	FC, iSCSI, NFS, CIFS, FC-NVme, NVMe over RoCE, NFS over RDMA, FTP, HTTP, NDMP, S3, SFTP	
Front-end Channel Port Type	8/16/32Gbps FC/FC-NVMe, 1/10/25/40/100 Gbps Ethernet, 25/100Gbps NVMe over RoCE/NFS over RDMA	
Type of Back-end Channel Port	100Gbps RDMA/SAS 3.0	
Maximum Number of Hot-swappable I/O Modules/Controller Enclosures	28	
Maximum Number of Front-end Host Ports/Controller Enclosures	96	
Maximum Number of Plates	6400	9600
Type of Hard Drive	NVMe TLC SSD, SAS TLC SSD, SAS, NL-SAS	
Software Specifications		
RAID Support	RAID10, RAID 5, RAID 6, and RAID-TP (tolerates three disk failures at the same time), etc	
Electrical Specifications		
Power Supply	Cabinet: 200V to 240VAC±10%, 346V to 415VAC±10%, 192V to 288VDC	
Dimensions (L × W × H)	Dimensions of a cabinet: 2000mm × 600mm × 1200mm Controller enclosure: 865mm × 447mm × 175mmS AS Disk enclosure: 410mm × 447mm × 86.1mm Disk enclosure: 620mm × 447mm × 86.1mm NL-SAS disk enclosure: 488mm × 447mm × 175mm	
Weight (including hard disk unit)	Weight Controller enclosure ⩽97kgSAS Disk enclosure ⩽19.65kg NL-SAS disk enclosure ⩽43.9kg Intelligent NVMe disk enclosure ⩽33.95kg System cabinet ⩽700kg; Disk cabinet ⩽600kg	
Working Environment Temperature	The ambient temperature when the altitude is -60 to +1800m is 5℃ to 35℃ (cabinet) /40℃ (frame) When the altitude is from 1800m to 3000m, the altitude is increased by 220m, and the ambient temperature is decreased by 1℃	
Working Environment Humidity	10% to 90% RH	

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