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# Huawei OceanProtect Backup Storage

Huawei Technologies Co., Ltd.

## anProtect Backup Storage





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rage system with the fastest recovery capability, which leads to-flash-to-anything (F2F2X) era. It helps you quickly and E2E acceleration and an active-active architecture. It is also a It, finance, carrier, healthcare, and manufacturing sectors.

ad Engine (DTOE) releases the CPU resources. The back-end ts core grouping and task partitioning to improve processing

multiple sequential data streams are aggregated to greatly estoration bandwidths of the system reach up to 155 TB/hour

of up to 480,000 IOPS and offers instant access to data in p data.

kup data streams, aggregation preprocessing of backup data, improve effective capacity and reduce TCO.

- Feature-based reduction: Identifying data stream features and combining compression, high-performance predictive coding, and byte-level compaction increase the data reduction ratio.
- Expansion on demand: Users can start with small capacity and scale in small increments to reduce their system investment.

### **High Reliability**

- Architecture: The active-active hardware architecture ensures failover within seconds without affecting backup services.
- · Data: The RAID-TP technology tolerates simultaneous failures of up to three disks.
- · Silent data consistency check: Protects data integrity and validity.



### **Technical Specifications**

Model	OceanProtect X6000		OceanProtect X8000		OceanProtect X9000	
	All-Flash Form	HDD Form	All-Flash Form	HDD Form	All-Flash Form	HDD Form
Hardware specifications						
Data reduction ratio*	Up to 72:1					
System backup bandwidth	Up to 19 TB/hour		Up to 55 TB/hour		Up to 155 TB/hour	
System restore bandwidth	Up to 22 TB/hour	Up to 8 TB/hour	Up to 57 TB/hour	Up to 24 TB/hour	Up to 172 TB/hour	Up to 48 TB/hou
Number of controllers per node	2		2		4	
Max. number of nodes	1		2		2	
System usable capacity	16 TB-300 TB		150 TB-2.0 PB		480 TB-3.6 PB	
Data disk types	3.84 TB/7.68 TB SAS SSD	4 TB NL-SAS disk	7.68 TB SAS SSD	4 TB/8 TB NL-SAS disk	7.68 TB SAS SSD	8 TB NL-SAS disk
Front-end port types	8/16/32 Gbit/s FC, 10/25/40/100 GbE					
Front-end storage protocols	NFS, SMB, FC, iSCSI					
Software specifications						
RAID type	RAID 2.0+					
Supported RAID levels	RAID 6 (default), RAID 5 (optional)**, and RAID-TP (optional)					
Software functions	Inline deduplication, inline compression, multi-tenancy, quota management, snapshot, remote replication, audit logs, intelligent service quality control, and data erase					
System management	Device O&M(DeviceManager), Remote O&M ( eService )					
Electrical specifications						
Power supply	Node: 200 V-240 V AC±10%, 192 V-288 V DC; SSD enclosure: 100 V-240 V AC±10%, 192 V-288 V DC; HDD enclosure: 100 V-240 V AC±10%, 240 V DC±20% (HDD form)					
Dimensions(H x W x D)	Node: 86.1 mm×447 mm× 820 mm		Node: 86.1 mm×447 mm× 820 mm		Node: 175 mm×447 mm× 865 mm	
	SSD enclosure: 86.1 mm x 447 mm x 410 mm HDD enclosure: 175 mm x 447 mm x 488 mm ( HDD form )					
Weight	Node: ≤ 45 kg		Node: ≤ 45 kg		Node: ≤ 89 kg	
	SSD enclosure: ≤ 20 kg, HDD enclosure: ≤ 44 kg (HDD form)					
Operating temperature	-60 m to+1800 m altitude: 5°C to 35°C (bay) 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%~90%R.H.					

 $^{\ast}$  The data reduction ratio depends on the application type and backup policy.

\*\* For further details on the specifications, please contact Huawei sales.

#### For More Information

To learn more about Huawei storage, please contact your local Huawei office or visit the Huawei Enterprise website: http://e.huawei.com/en/.







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