Huawei OceanProtect
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
t, 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
restoration bandwidths of the system reach up to 155 TB/hour

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

* The data reduction ratio depends on the application type and backup policy.
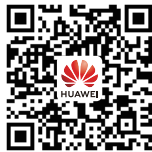
** For further details on the specifications, please contact Huawei sales.

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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Huawei Technologies Co., Ltd.

Bantian Longgang District

Shenzhen 518129, P.R. China

Tel: +86-755-28780808

www.huawei.com