



Vinchin HyperProtect Technical Specifications

Vinchin HyperProtect 5000, 8000 Backup Storage

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1 Overview

Vinchin HyperProtect backup storage is a resilient storage system with the fastest recovery capability, which leads the dedicated backup storage industry into the flash-to-flash-to-anything era. It helps you quickly and reliably backup and restore data at a low TCO, using an active-active architecture. It is also a trusted choice for demanding scenarios in government, finance carrier, healthcare, and manufacturing sectors.

2 Highlights

Rapid Backup, Rapid Recovery

- High bandwidth: Using backup service features, multiple sequential data streams are aggregated to greatly improve the bandwidth, while source deduplication reduces the amount of data transmitted over the network and shortens the backup time.
- Instant access: The system provides high IOPS and works with mainstream backup software to offer instant access to data in backup images, enabling quick utilization of backup data.

Efficient Reduction

- Multi- layer deduplication: Higher logical capacity and lower TCO thanks to precise chunking of backup data streams, aggregation preprocessing of backup data, and multi- layer inline variable- length deduplication.
- Feature- based reduction: Identifies data stream features; Combining compression, high-performance predictive coding, and byte- level compaction increase the data reduction ratio.

Solid Resilience

- Cyber resilience: Link and array encryption, secure snapshots and WORM technologies ensure secure and available copies.
- System resilience: The active-active hardware architecture ensures failover within seconds, without affecting backup services. The whole system can deliver up to 99.9999% reliability.

3 Technical Specifications

Model	HyperProtect 5000		HyperProtect 8000	
	All-Flash Form	HDD Form	All-Flash Form	HDD Form
Data reduction ratio *	Up to 70:1			
Number of controllers per node	2		2	
Max. number of nodes	1		2	
Usable capacity of the system	16 TB - 300 TB		150 TB - 2.0 PB	
Data disk types	3.84/7.68 TB SAS SSD	4/8/14/20 TB NL-SAS	3.84/7.68 TB SAS SSD	4/8/14/20 TB NL-SAS
Front-end port types	8 /16/32 Gbit/s FC, 10/25/40/100 GbE			
Front-end storage protocols	NFS, SMB, FC, iSCSI			
Software functions	Deduplication and compression, multi- tenancy, quota management, snapshots, remote replication, audit logs, quality control, secure snapshots, WORM, ransomware detection, etc.			
System management	Web UI			
Weight	Node: ≤ 45 kg		Node: ≤ 45 kg	
	SSD enclosure: ≤ 20 kg, HDD enclosure: ≤ 44 kg			
Operating temperature	-60m to +1800m altitude: 5°C to 35°C (bay) or 40°C (enclosure); 1800m to 3000m altitude: The max. temperature threshold decreases by 1°C for every altitude increase of 220m			
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 Vinchin sales.