

Consolidate your unstructured data—both objects and files—to a single, limitlessly scalable storage pool with Clouidian<sup>®</sup> HyperStore<sup>®</sup>. Available as either standalone software or fully integrated appliances, HyperStore enterprise object storage provides unlimited capacity scalability, intuitive management tools, uncompromising data protection and the industry's most compatible S3 API implementation—all at 70% less cost than traditional disk-based storage systems.

## Start Small and Grow

Start small with initial deployments of just a few HyperStore nodes. As demand grows, expand capacity non-disruptively by adding nodes to your cluster. Unlike some systems that require all nodes to be identical, HyperStore lets you add nodes of any size. Flexibly grow from terabytes to petabytes with no down time.

## Works with Your Applications

Only HyperStore offers a 100% native S3 API for objects, plus SMB/NFS for files. Proven in over six years of deployments, HyperStore's S3 API offers guaranteed compatibility with your S3-enabled applications. For files, select the optional SMB/NFS interface. Deploy with your applications, or leverage our growing partner ecosystem.

## Save 70% vs Conventional Storage

At costs down to ½ cent per GB per month, HyperStore's efficient architecture and industry-standard components save you 70% on CAPEX. Massive scalability and lights-out management result in 95% less overhead. And you'll save on rack space: up to 760TB in just 4U height.

## Uncompromising Data Durability

Get up to 14 nines data durability and configurable data protection. Only HyperStore lets you customize data protection for various data types within a cluster. Select from multiple levels of data replication and erasure coding.

## Integrated Disaster Recovery

Implement DR using HyperStore's integrated tools. Deploy across multiple data centers or regions to provide redundancy and resilience in the event of a data center failure. Configurable consistency levels let you select either synchronous or asynchronous replication.



## FEATURES/BENEFITS

- Limitlessly scalable capacity
- Start with just three nodes and grow
- Non-disruptive capacity expansion
- 100% native S3 API for guaranteed compatibility
- Replication and erasure coding
- Bucket-level granularity for all storage policies
- Encryption for secure data storage
- Comprehensive multi-tenant services
- Quality of Service (QoS) controls
- Integrated billing, management, and software
- Geographically distributed replication

## USE CASES

- Backup and disaster recovery
- File consolidation
- Media active archive
- Collaboration
- File lifecycle management
- AI / Machine Learning
- Storage-as-a-Service (STaaS)

## Scalable Performance

Processes multiple requests in parallel, across all nodes in HyperStore's shared-nothing cluster. This eliminates bottlenecks and allows performance to grow as you add nodes. For large file transfers, multi-part upload lets you transfer files seamlessly between sites or to the public cloud.

## Multi-Tenancy

Establish multiple user spaces with HyperStore's multi-tenancy capabilities. Provide individual management domains and namespaces within a shared cluster. Clouidian offers QoS controls and billing features that let you manage bandwidth and chargebacks.

## Intuitive Management

Manage Clouidian via the intuitive web-based GUI or automate tasks using the RESTful API. Cluster management tasks are simple as well. Add or remove nodes and update system software without disruption.

## Public Cloud Integration

Clouidian offers integration with all major public cloud services, including Amazon AWS, Google GCP, and Microsoft Azure Blob Storage. Use policy-based tiering to either migrate or replicate data from the Clouidian cluster. View both public cloud

data and local data on a single screen. Bimodal access lets public cloud-based applications directly access cloud-resident data.

## Variable-size Metadata Tags

Record metadata along with user data to facilitate data management and data search. Elastic Search integration provides near real-time search capability. Variable metadata tag sizes give you flexibility not found in other object storage systems.

## Security

HyperStore AES-256 Server-Side Encryption enables enterprises and service providers to easily encrypt data stored at rest. SSL encryption ensures data confidentiality for data in transit (HTTPS). And with S3 compatible ACLs, bucket policies, and IAM, system administrators can better manage access to buckets and objects.

## Software or Appliance—Your Choice

Available as either software or a fully-integrated appliance, Clouidian HyperStore lets you choose the deployment model that meets your business needs. Software can be deployed on either industry-standard servers or virtual machines.

## HyperStore 1500 Specifications

<b>Form Factor</b>	1U rack mount chassis
<b>Metadata Drives</b>	2x 960GB SSD
<b>Data Drives</b>	12 x 3.5" SAS HDD (7200RPM)
<b>Drive Sizes</b>	8TB, 10TB, 12TB
<b>Storage Capacity Raw</b>	96TB, 120TB, 144TB
<b>Data Protection</b>	Replication and erasure coding via storage policies
<b>Redundancy</b>	Hot swappable disk drives 2x hot swappable power supplies No single point of failure Non-disruptive online software upgrades
<b>CPU</b>	2x E5-2620 v4, 8 core
<b>Memory</b>	128GB
<b>Network Interfaces</b>	2x10GbE (10BaseT or SFP+)
<b>Monitoring/Management</b>	CLI, GUI, API, IPMI, JMX
<b>Power Supply</b>	700W Platinum PSU, 1+1 Redundancy, 100-240V AC
<b>Cooling</b>	(6) 40x56 dual rotor fans
<b>Thermal Rating</b>	2578 BTU/hr (max)
<b>Dimensions</b>	17.6" x 1.7" x 35" / 448.2mm x 43.2mm x 881mm
<b>Weight</b>	62.8 lbs / 28.5Kg
<b>IO Ports</b>	Front: (1) USB 2.0 port Rear: (2) USB 3.0 ports, (1) VGA port, (1) RS232 serial port (2) 1GbE RJ45 ports, (1) Gbe RJ45 management port
<b>Operating Environment</b>	Operating temperature: 5°C to 35°C (41°F to 95°F) Non-operating temperature: -40°C to 65°C (-40°F to 149°F) Operating relative humidity: 50% to 85%RH Non-operating relative humidity: 20% to 90%RH

## HyperStore 4000 Specifications

<b>Form Factor</b>	2 nodes in a 4U rack mount chassis
<b>Metadata Drives</b>	4x 1.92TB SSD (2 per node)
<b>Data Drives</b>	70x SAS HDD (35 per node, 7200RPM)
<b>Drive Sizes</b>	8TB, 10TB, 12TB
<b>Storage Capacity Raw</b>	560TB / 700TB / 840TB
<b>Data Protection</b>	Replication and erasure coding via storage policies
<b>Redundancy</b>	Hot-swappable disk drives 4x hot swappable power supplies No single point of failure Non-disruptive online software upgrades
<b>CPU</b>	4x E5-2620 v4, 8 core (2 per node)
<b>Memory</b>	256GB (128GB per node)
<b>Network Interfaces</b>	4x 10GbE (10BaseT or SFP+, 2 per node); 256GbE/40GbE options
<b>Monitoring/Management</b>	CLI, GUI, API, IPMI, JMX
<b>Power Supply</b>	1200W Platinum PSU, 2+2 redundancy, 100-240V AC
<b>Cooling</b>	(4) 8056 + (1) 6056 dual-rotor fans
<b>Thermal Rating</b>	3794 BTU/hr (max)
<b>Dimensions (W x H x D)</b>	17.6" x 6.9" x 35.9" / 447mm x 175.3mm x 912.2mm With cable management arm: 17.6" x 6.9" x 45.9" / 447mm x 175.3mm x 1166mm
<b>Weight</b>	220 lbs / 99.8Kg
<b>IO Ports</b>	Rear per node: (2) USB 3.0 ports; (1) VGA port; (2) RS232 serial ports; (2) GbE RJ45 ports; (1) GbE RJ45 management
<b>Operating Environment</b>	Operating temperature: 5°C to 35°C (41°F to 95°F) Non-operating temperature: -40°C to 65°C (-40°F to 149°F) Operating relative humidity: 50% to 85%RH Non-operating relative humidity: 20% to 90%RH

## HyperStore Appliances

HyperStore appliances are built for simplicity, density and cost-effectiveness. Each model is fully integrated with Cloudbian HyperStore software. Appliances are available with end-to-end support packages, including options for on-site support.

### HyperStore 1500 Appliance

- Ultra-dense 1U platform
- 12x hot-swappable 3.5" disk drives
- Up to 4x hot-swappable 2.5" SSDs
- 10GbE networking



### HyperStore 4000 Appliance

- Ultra-dense 4U platform
- 2 nodes in 1 chassis
- 70x hot-swappable 3.5" disk drives (35 per node)
- Up to 4x hot-swappable 2.5" SSDs
- 10GbE networking



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