

DHI-CSS9064X-400S

Cloud Storage Metadata Server



- · Embeded cloud storage metada service and system maintenance service software
- · Cloud storage system capacity and storage node load balancing management
- · Automatic fault detection and fault tolerance
- · Hot-standby mode by high availability technology
- · High speed metadata service by exclusive cache acceleration technology

System Overview

Dahua standard cloud storage featuring an asymmetric distributed architecture that is composed of metada server and storage nodes, is specially designed for massive unstructured data storage. It delivers unparalled performance and linear scalability, and is able to provide a fundamental platform for further data mining.

Dahua standard cloud storage is ideal for a wide range of big data scenarios such as public safety, manufacturing institutions and VSaaS market, where massive data with diversity types needs to be stored and managed.

Features

High availability

Achieve high availability by keeping real time heartbeat between master and slave server. Once master server fails, slave server will take over within seconds to ensure business continuity.

Dynamic load balancing between storage nodes Provide load balancing and evenly distribute all data between all storage nodes by tracking the performance of each storage node including spare capacity, CPU load, network I/O and disk I/O of in real time.

Control and data flow separation

Data flow is generated only between client an storage nodes, reducing the load of metada nodes dramatically and eliminating system bottlenecks.

Innovative management with intelligent automation
User-friendly system maintenance interface, making essential
management work more effective. Real-time display of system
health status including capacity, network flow and workload. Oneclick fault detection and set recovery priority for important data files.

Open convergence

Provide a set of open interfaces including ONVIF, NFS, CIFS, HDFS API, RESTful API for integration and interoperability with diversity 3rd party VMS and web applications.



Standard Cloud Storage | DHI-CSS9064X-400S

Technical Specifications	S
Hardware	
Form Factor	1U rack server
Processor	Inter Xeon Dual E5-2609 V3 6 cores
Chipset	Intel C610
Memory	64GB DDR3, up to 768GB, ECC
RAID Controllers	PERC H330
Internal Storage	2 x 2.5-inch 500GB Enterprise SATA HDD 2 x 2.5-inch 400GB Datacenter SATA SSD
Embeded NIC	4 x Broadcom 5720, 1Gb Base-T adapter
Communications	2 x USB3.0, 2 x USB2.0, 1 x embeded USB2.0, 1 x RS232
System Architecture	
Cluster Architecture	1+1 hot-standby architecture
File System	
File System	Dahua EFS file system, embeded metadata service
Data Type	Metadata
Data Protection	2-tier data protection: SATA HDD and SSD 1+1 backup RAID 1 protection for both SATA HDD and SSD
Performance Index	
System Capacity	Up to 6 PB
Number of Storage Nodes	60
Number of Small files	4 billion
Number of Video-channels	<3000
Number of Client Connections	1024
Storage Management	
Initialization	One-click system initialization
Quota Management	Data quota management based on users, user groups and directories, allocation of capacity on demand
Storage Expansion	Scale-out technology, online expansion, with less than 60 seconds for expansion of a single node
Condition Monitoring	Real time health status monitoring including processor usage, memory usage, disk capacity, etc.
Fault detection	Automatic storage node and disk fault detection
Alert By Email	Alarm notification of system exception by email

Interface		
Open Interface	POSIX, RESTful API, NFS/CIFS protocol, Dahua SDK	
Electrical		
Power Supply	Platinum efficiency 495W, Redundant power, Hotswappable	
Power Consumption	<450W	
Environmental		
Operating Conditions	-0°C ~ +40°C / Less than 80% RH	
Strorage Conditions	-20°C ~ +70°C / Less than 90% RH	
Ingress Protection	N/A	
Vandal Resistance	N/A	
Construction		
Rack support	19-inch rack-mounted	
Dimensions	482.4mmx42.8mmx752.1mm	
Weight	16.9Kg	
Certification		
CE	EN 60950-1, EN55022, EN55024, EN61000-3, EN62623, EN50581	
FCC	US CFR Title 47, FCC Part 2,15 ANSI C63,4 2009 Canadian ICES-3(A)/NMB-3(A), Issue5	

Ordering Information			
Туре	Part Number	Description	
Cloud storage metadata server	DHI-CSS9064X-400S	Cloud storage metadata server	

