CoreVault CS7000

Distributed Cluster Storage System for Scalable Enterprise Data Infrastructure

PRODUCT OVERVIEW

The Quant CoreVault CS7000 is a distributed cluster storage platform designed for enterprise cloud storage, surveillance data retention, and large-scale storage environments. Built on standard x86 architecture, it separates control paths and data paths to support high availability, flexible scalability, and petabyte-level storage capacity under a unified namespace.

KEY HIGHLIGHTS

- Distributed storage architecture for large-scale clusters
- Unified namespace for simplified storage access
- Supports Windows and Linux client platforms
- Petabyte-scale capacity with high aggregate bandwidth
- Load balancing and concurrent access support
- Designed for enterprise, cloud, and surveillance workloads

DISTRIBUTED CLUSTER ARCHITECTURE

- Separates control nodes and storage nodes
- Supports scalable deployment using x86 hardware
- Enables load balancing across storage resources
- Designed for high availability and easy expansion

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DATA PROTECTION – DATA COPIES

- Provides redundancy through multiple data copies
- Protects critical data against disk or node failure
- Supports reliable long-term storage availability
- Suitable for enterprise and surveillance data protection

DATA PROTECTION – ERASURE CODING

- Optimizes storage efficiency for large-capacity systems
- Maintains data availability during hardware failures
- Reduces storage overhead compared with full copies
- Suitable for backup, archive, and cloud storage use

HIGH AVAILABILITY STORAGE DESIGN

- Cluster architecture reduces single-point dependency
- Built for continuous data access and expansion
- Supports stable operation for critical storage workloads
- Suitable for 24/7 enterprise storage environments

SCALABLE STORAGE EXPANSION

- 24-bay storage host configuration support
- 24-bay disk expansion enclosure support
- Flexible HDD and SSD drive module options
- Scalable architecture for future capacity growth

SIMPLIFIED MANAGEMENT

- Unified namespace simplifies storage administration
- Centralized management for distributed storage resources
- Supports Windows and Linux client environments
- Designed for easy operation and maintenance

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TECHNICAL SPECIFICATIONS

Feature	Description
Model	CoreVault CS7000
System Type	Distributed Cluster Storage Server
Architecture	Asymmetric Distributed Architecture
Node Design	Control Nodes + Storage Nodes
Hardware Platform	Standard x86 Architecture
Namespace	Unified Namespace
Client Access	Windows and Linux Platforms
Scalability	Petabyte-scale Storage Capacity
Performance	High Aggregate Bandwidth
Data Protection	Data Copies / EC Erasure Coding
Storage Host	24 × 3.5"/2.5" Drive Support
Expansion Enclosure	24 × 3.5"/2.5" Drive Support
Connectivity Options	GE / 10GE / 25GE / 40GE / FC Modules
Drive Options	3.5" SAS HDD / 2.5" SAS SSD
Power Module	550W / 800W Power Module Options
Management	Unified Cluster Storage Management

APPLICATIONS

- Enterprise Cloud Storage Infrastructure
- Video Surveillance Storage Platforms
- Data Center Storage Clusters
- Backup and Archive Storage
- Large-Scale File Storage Environments
- Smart City and Government Data Platforms

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CERTIFICATIONS & WARRANTY

Feature	Description
Certifications	CE, FCC, ISO 14001:2015
Country of Origin	Malaysia
Warranty	1 Year

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