Let Computing Serve You Better

xFusion Distributed Storage Solution

FusionOne Storage

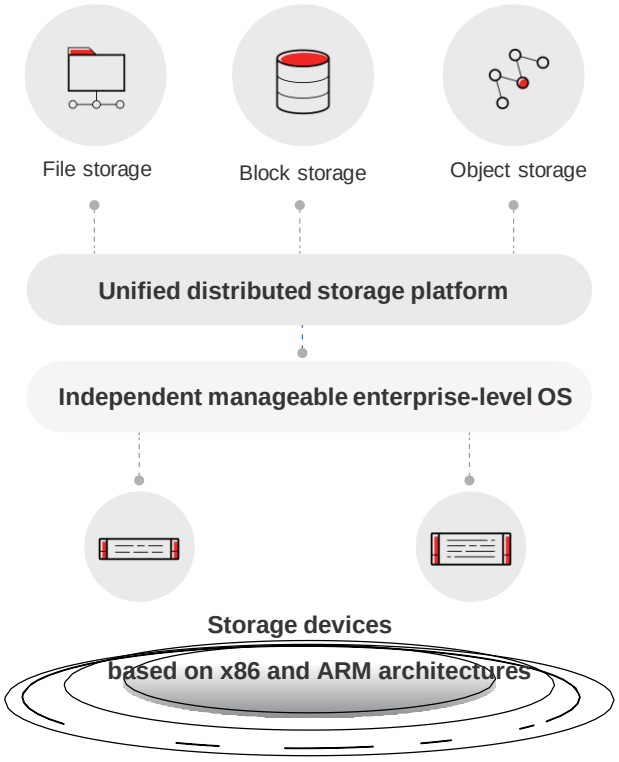


XFUSION INTERNATIONAL PTE. LTD.

01 Overview

The xFusion FusionOne Storage is a dedicated appliance designed for enterprises requiring storage of massive data. This appliance consolidates the FusionOne Storage software, the enterprise-grade FusionOS, and purpose-built server hardware, achieving integrated delivery of software and hardware. It provides users with a high-performance, stable, and easy-to-manage software-defined storage platform, along with customized data processing features tailored for various scenarios.

02 Product Features Summary



High Performance for Diverse Workloads

- High-performance distributed storage that delivers 10% better performance than the industry average in the same configuration.
- Linear scalability to 4096 nodes; TB-level distributed cache.
- High-speed parallel reconstruction of 1 TB data within 20 minutes.

Stability and Reliability, with Multi-Layer Reliability Assurance

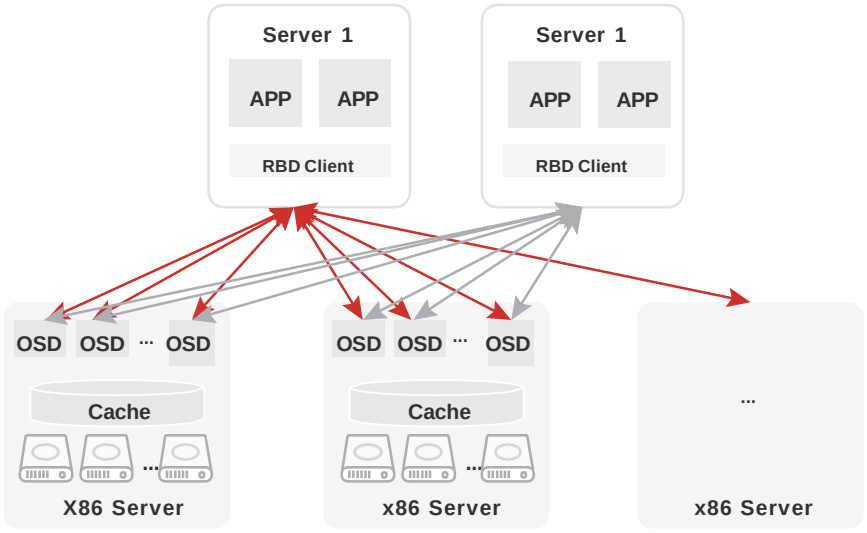
- Component-level reliability: Comprehensive reliability assurance for servers, OSs, drives, and networks.
- System-level reliability: Dual protection with data redundancy and multiple failure domains.
- Data center-level reliability: The DR and backup function of two-site and three-centers improves system reliability.

Intelligent Management to Reduce O&M Complexity

- Integrated delivery, quick roll-out within 30 minutes
- Unified storage, unified O&M
- Intelligent management and simplified O&M experience

02 Product Features Introduction

Fully Distributed Storage Architecture



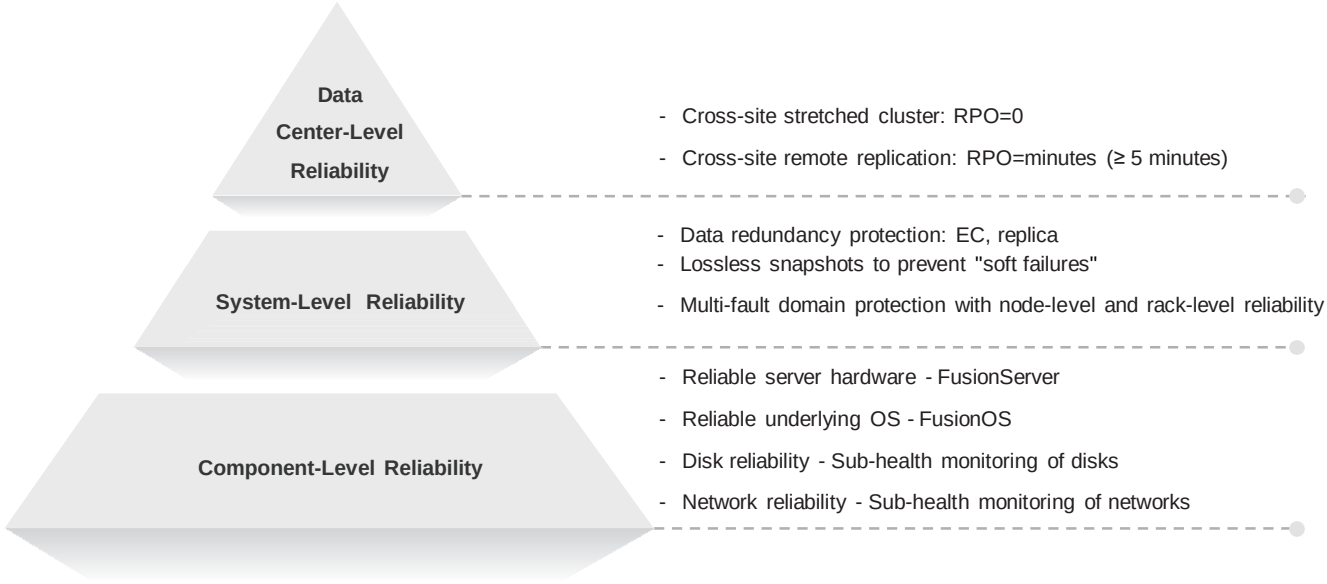
Elastic and Flexible Scaling of Performance and Capacity

Distributed controller:
Linear scalability to **4096** nodes

Distributed cache:
Distributed cache, scalable to **TB** level

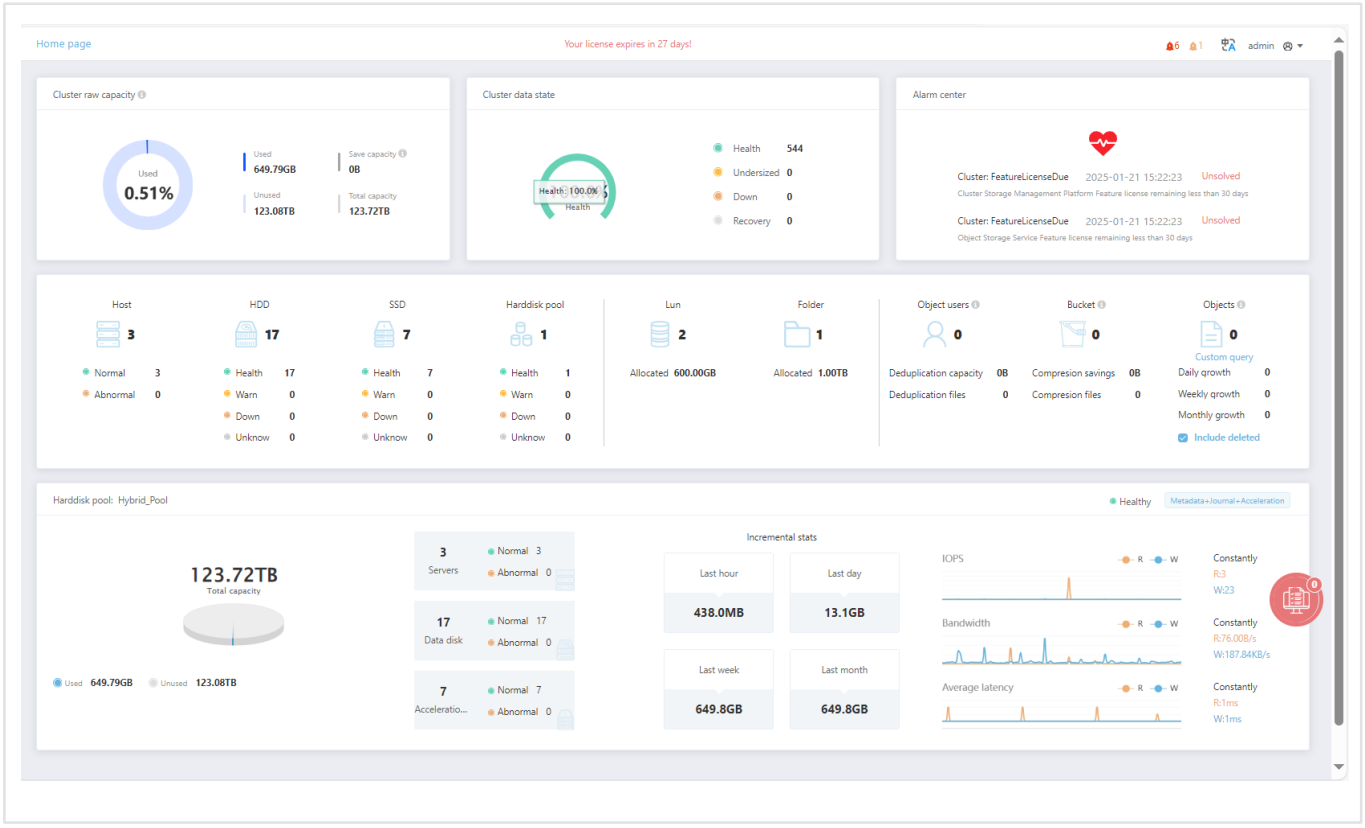
P2P non-blocking network:
10GE/25GE/100GE

Three-Tier Redundancy Design



02 Product Features Introduction

Intelligent O&M for Easy Management of Large-Scale Clusters

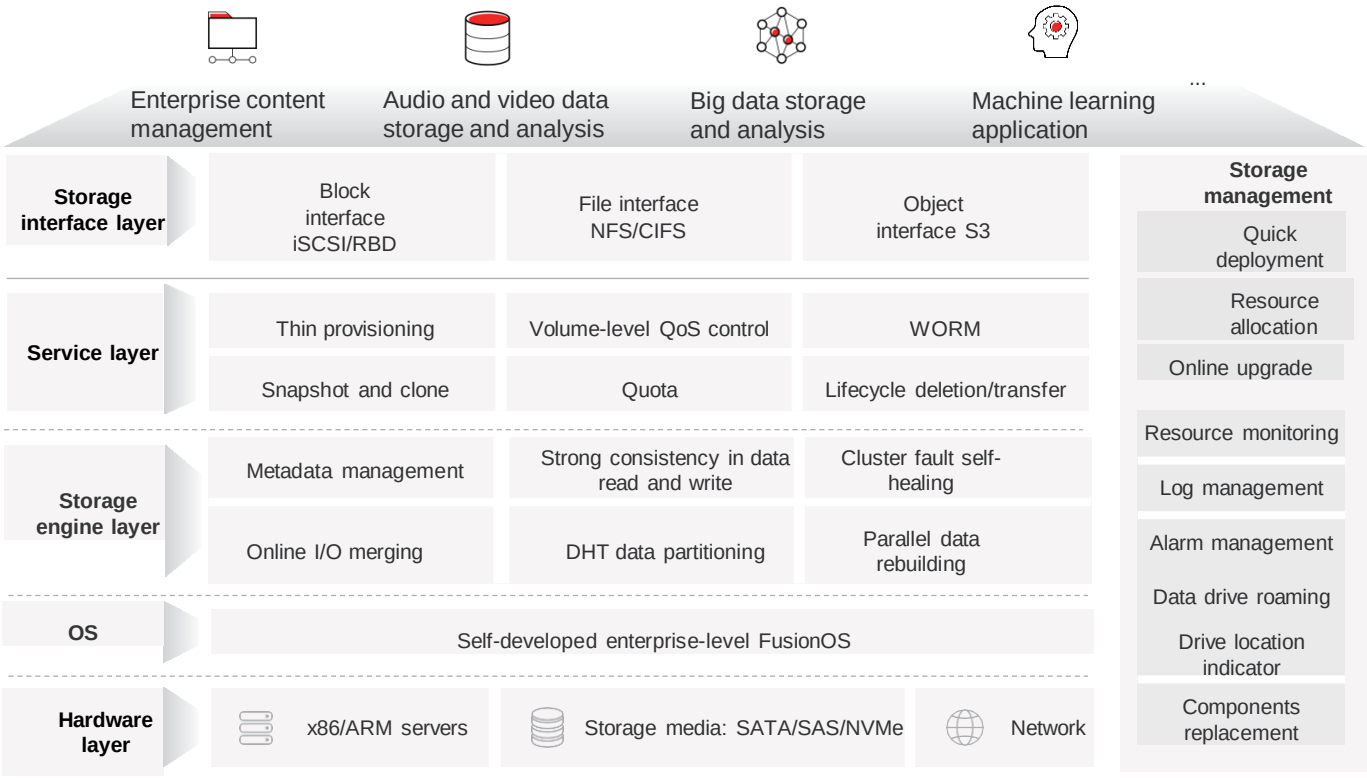


Intelligent Management Features

- AI-based drive fault prediction
- Storage resource utilization prediction
- Sub-health detection and repair for networks
- Automatic device discovery
- Storage performance analysis
- SSD lifespan monitoring
- Automated inspection

02 | Features

Product architecture



Typical configuration

Hardware specifications	2288H V6 high-performance nodes*	2288H V6 Balanced nodes	5288H V6 large-capacity nodes**	5288H V6 large-capacity nodes**
Node type	2U 2-socket all-flash model	2U 2-socket hybrid model	4U 2-socket hybrid model	4U 2-socket hybrid model
Drive	24 x NVMe	12 x 3.5" SATA	36 x 3.5" SATA	60 x 3.5" SATA
CPU	2 x 3rd Gen Intel® Xeon® Scalable processors			2 x 4th/5th Gen Intel® Xeon® Scalable processors
Memory	DDR4 RDIMM (at least 192 GB)	DDR4 RDIMM (at least 128 GB)	DDR4 RDIMM (at least 256 GB)	DDR5 RDIMM (at least 384 GB)
System drive	2 x 600 GB SAS HDDs or 2 x 480/960 GB SATA SSDs			2 x 600 GB SAS HDDs, 2 x 480/960 GB SATA SSDs, or 480 GB M.2 SATA SSDs
Cache	-	1–4 x 1.6 TB/3.2 TB/6.4 TB NVMe SSDs	1–4 x 1.6 TB/3.2 TB/6.4 TB NVMe SSDs	6-8 x 1.6 TB/3.2 TB/6.4 TB NVMe SSDs
Main storage	2.5" NVMe SSD	3.5" SATA HDD	3.5" SATA HDD	3.5" SATA HDD
Network	10GE/25GE	10GE/25GE	10GE/25GE	10GE/25GE

**Mainly used in high-performance scenarios such as databases and virtualization, which require high IOPS and low latency.*

***Mainly used in large-capacity storage resource pool scenarios such as video surveillance, big data, and backups.*

02 | Features

Key features of storage nodes

FusionServer 2288H V6

Adaptive to multiple workloads such as cloud computing, virtualization, database, and big data processing, with supreme performance and flexible configuration



Ultra-large storage

- 24 x 2.5" NVMe SSDs, providing high capacity storage
- 32 x 3200 MT/s DDR4 DIMM slots, delivering up to 12 TB memory capacity

Supreme computing

- 2 x 3rd Gen Intel® Xeon® Scalable processors (Ice Lake) with up to 270 W and 56 cores for general-purpose computing

Flexible configuration

- 2 x hot-swappable OCP 3.0 NICs
- 2 x PSUs in 1+1 redundancy
- 4 x hot-swappable counter-rotating fan modules in N+1 redundancy

Intelligent management

- FDM: diagnoses faults with locating accuracy up to 93%
- Intelligent disk fault prediction: predicts faults 7 to 30 days in advance
- DEMT 2.0 energy-saving technology: reduces energy consumption by up to 18%
- Intelligent memory fault self-recovery: reduces downtime by 50%
- Five intelligent technologies: improve O&M efficiency by 30%

02 Features

Key features of storage nodes

FusionServer 5288 V6

Preferred video analysis server with warm and cold storage

Used in scenarios such as warm and cold storage, cloud storage, and big data processing



Ultra-large storage

- Hybrid storage architecture and tiered data storage
- 36 x 3.5" drives and 4 x NVMe SSDs, meeting requirements for warm and cold data storage and high-speed storage media
- 32 x 3200 MT/s DDR4 DIMM slots, delivering up to 12 TB memory capacity

Supreme video analysis storage

- 2 x 3rd Gen Intel® Xeon®Scalable processors (Ice Lake) with up to 270 W and 56 cores for general-purpose computing

Flexible configuration

- 2 x hot-swappable OCP 3.0 NICs
- 3 x PCIe 4.0 expansion slots
- 2 x PSUs in 1 + 1 redundancy
- 4 x hot-swappable fan modules in N+1 redundancy

Intelligent management

- FDM: diagnoses faults with locating accuracy up to 93%
- Intelligent disk fault prediction: predicts faults 7 to 30 days in advance
- MPC-PID energy-saving technology: reduces energy consumption by 5%
- Intelligent memory fault self-recovery: reduces downtime by 50%
- Five intelligent technologies: improve O&M efficiency by 30%

02 | Features

Key features of storage nodes

FusionServer 5298 V7

Ideal for Distributed Storage and Warm and Cold Storage

Warm and cold storage for big data, backup, and archiving



Ultra-large storage

- Hybrid storage architecture and tiered data storage
- 60 x 3.5" SAS/SATA drives, reducing TCO by 30%+
- 32 x DDR5 RDIMMs with a blazing speed of 5600 MT/s and a massive memory capacity of 8 TB
- 8 x NVMe SSDs

Elastic Configurations

- 2 x hot-swappable OCP 3.0 NICs, with support for PCIe 5.0
- 2 x M.2 SSDs, hot-swappable and equipped with hardware RAID
- 2 x PCIe expansion slots with support for PCIe 5.0

Solid Reliability

- Carrier-class components with 100% derating design
- 2 x PSUs in 1+1 redundancy
- 8 x hot-swappable counter-rotating fan modules in N+1 redundancy in the computing area, and 4 x hot-swappable counter-rotating fan modules in N+1 redundancy in the storage area

Intelligent Management

- Fault diagnosis & management (FDM): achieving an impressive diagnosis accuracy rate of up to 96%
- Intelligent drive fault prediction: predicting potential drive failures 7 to 30 days in advance
- Intelligent energy saving: saving power by up to 8% compared with the industry average
- Intelligent memory fault self-healing: reducing downtime by 66%
- Five intelligent technologies: O&M efficiency improved by 30%

More Information

For more information about xFusion,
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official website at https://www.xfusion.com/en.

xFusion official website

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