



ACTIVESTOR 200 PARALLEL STORAGE CLUSTER

High-Performance Secondary Parallel Storage



The ActiveStor 200 Parallel Storage Cluster is the newest member of the ActiveStor family and is designed to be used primarily as a secondary storage system for Tier 2 applications. The AS200 offers high capacity, superior manageability and industry leading reliability at a very attractive price.

The ActiveStor 200 Parallel Storage Cluster with its embedded PanFS™ parallel file system meets the demands of massively parallel data movement by offering scalable performance and capacity. With their exceptional ease-of-management and a single global namespace, Panasas solutions are truly accelerating time to results for engineers, analysts and scientific researchers and simplifying the lives of IT system administrators.

Panasas ActiveStor 200 Parallel Storage Cluster

Unsurpassed integration, reliability and capacity

The ActiveStor 200 second tier parallel storage cluster is the world's first fully parallel secondary storage solution.

It packs a robust 104 TB of raw storage capacity into half a standard rack and delivers up to 350 MB/s of throughput to primary storage via the DirectFLOW® protocol. It provides up to 208 TB of raw storage capacity and up to 700 MB/s of throughput from a standard 42 U rack. Multiple racks can be added and configured to provide storage pools of multiple Petabytes, all managed by a common file system and management interface.

In environments where ActiveStor 4000 or 6000 parallel storage clusters are deployed, the ActiveStor 200 enables the benefits of scalability, performance and simplified management to be extended to second-tier storage applications by sharing the same underlying file system architecture and management tools.

This industry-leading secondary storage solution for data-intensive environments shares the same Panasas ActiveScale® operating environment as the Panasas ActiveStor 4000 and 6000 parallel storage clusters.

Panasas ActiveScale Operating Environment

Maximum scalability with PanFS™ parallel file system

At the heart of the third generation ActiveScale OS is the PanFS parallel file system which turns files into smart data objects and then dynamically distributes data transfers across Panasas StorageBlade® modules. This object-based storage clustering architecture enables parallel data paths between StorageBlade modules and client nodes, eliminating the inherent performance and capacity bottlenecks of traditional file systems based solely on NFS.

FEATURES AND BENEFITS

DirectFLOW® Protocol for Parallel I/O:

- **Maximizes Performance**
Provides faster data transfer to/from primary storage

ActiveScale® Operating Environment:

- **Reduces IT Support**
Simplifies storage management by deploying the same operating environment and storage architecture in the second tier as is deployed in the production environment

The ActiveScale operating environment also dramatically lowers the cost of managing data storage by supporting Terabytes (TBs) to Petabytes (PBs) of data capacity growth all within a single, easily managed namespace.

The ActiveScale operating environment provides a plethora of proactive self-management features that make it the most robust storage operating environment available today.

ActiveScan software ensures continuous system performance by monitoring the data objects, data parity, the disk media and the disk drive attributes. If a potential problem is detected, data can be moved to other StorageBlade modules to eliminate the need for reconstruction.

With the ActiveStor 200, your data is fully protected with the new Panasas Tiered Parity™ data protection, which automatically detects and corrects unrecoverable media errors on the disk drives. This patented sector level RAID technology is the first of its kind in the storage industry and provides unprecedented data availability during RAID reconstruction.

To further protect your data, the ActiveStor 200 also includes an NDMP agent for automatically integrating with 3rd party backup and recovery solutions.

The Panasas Promise: Accelerate Time to Results and Maximize Your ROI

Panasas offers comprehensive storage solutions for data-intensive environments and delivers the highest bandwidth and I/O performance; scalable performance and capacity; and simple unified management. Built on an object-based architecture and optimized for compute clusters, the Panasas integrated hardware and software solution has been deployed in hundreds of installations around the globe, helping organizations accelerate their time to results and maximizing ROI from data-intensive and high performance computing environments.

ACTIVESTOR 200 PARALLEL STORAGE CLUSTER		
RAW CAPACITY	CACHE	RAW CAPACITY PER 42U RACK
104 TB	26 GB	208 TB

For more information, contact us today at www.panasas.com or 1-888-PANASAS.

Shelf Environmental

- **Ambient Temperature**
 - Operating temperature +10C to +35C
 - Non-operating temperature -20C to 70C
- **Relative Humidity**
 - Operating relative humidity 10% to 90%
 - Non-operating relative humidity 5% to 95%
- **Altitude**
 - 150m to 2440m

Shelf* Physical Specification

- Height 17.78 cm/7 in/4U
- Width 48.26 cm/19 in
- Depth 66.04 cm/26 in
- Weight 150lbs per shelf

Shelf* Power Specifications

- **Power Rating**
 - Output rating 950W
 - Input power rating 1200W
- **AC Power**
 - Typical operating current 4.4A @208VAC
 - Maximum in rush current 30A
 - Maximum current 7A @208VAC
- **Thermal Rating**
 - 4000 BTU/max

Rack System Specifications

- **Configuration**
 - Supports up to 10 Panasas shelves* per 42U rack
- **Power Distribution Units**
 - 4 Pre-wired PDU units 208/240 volts
 - Support redundant power grids
- **Rack Physical**
 - 42U high
 - 1800 lbs

* Panasas ActiveStor 200 secondary storage cluster is comprised of 5 shelves



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