



HyperStor

Enterprise
DRAM
Storage

High Speed Memory Storage Cluster

ViON designed the *HyperStor 4890* to improve system performance by combining the unmatched performance of memory, the addressability of storage, and the capacity of multiple Terabyte solutions. Computers have been getting faster and faster for years...now storage has finally caught up.

Storage That Will Never Slow Down Your System

Create solutions that you never thought possible. Now you can—

Process millions of transactions	Increase profits
Acquire fast data streams	Edit high definition video
Sub-millisecond response times	Accelerate meta data
Improve customer satisfaction	Shorten batch times

The World's Fastest Storage

Measure speed in Gigabytes per second.

Most storage products are optimized to store data; ViON designed the *HyperStor 4890* to transform data. An unequaled combination of RAM and fast Fibre Channel controllers enables the *HyperStor 4890* to move data faster than other storage. The *HyperStor 4890* is a cluster of high performing modules. Each module provides:

- 128GB of storage on high speed RAM
- Up to 3.2 GB per second of sustained random bandwidth
- As many as eight 4Gbit Fibre Channel ports (or 4 x IB4, late 2006)
- Redundant internal UPS
- RAID backup to internal hot swap hard disk drives

These high performance modules operate independently to increase system availability, configurability, and performance. Configure the *HyperStor 4890* to match your installation's needs, such as:

- Just a bunch of disks (JBOD)
- Logically grouped for large files
- Host RAID or controller RAID protected
- A large fast storage area for SAN file sharing

Power Protection

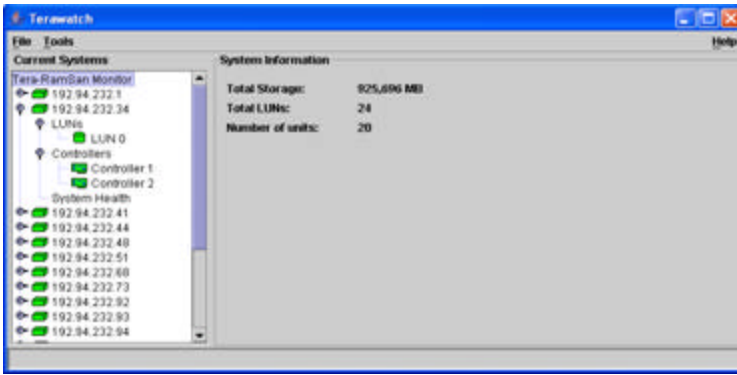
HyperStor 4890 protects your data from potential threats.

Each *HyperStor* module contains internal backup and battery systems, ensuring the persistence of data, even in the case of total power loss. If any module loses power, internal batteries keep it active. After a short time, the unit backs up all of its data to internal, redundant, hot swappable, RAID protected hard disks. In addition, the high-speed modules include redundant, hot swappable AC power supplies - each incorporating an independent power input.

Features:

- 1 Terabyte
- 3.2 Million IOPS
- 24 GB/Second





HyperWatch Software Makes it Easy to Manage your System Remotely.

HyperStor 4890 includes Telnet, Web, SNMP, and front panel management tools.

The HyperStor's manageability reflects its heritage as both a single system and the combination of independent storage subsystems. At the independent high-speed module level, each unit has the same HyperWatch manageability features including a browser-based Java monitoring tool, a front panel display, SNMP compatibility, and a Telnet configuration tool. HyperWatch presents a summary view of all installed modules and provides a single point to monitor the performance and any potential problems.

Immediate Return On Investment

HyperStor 4890 gives you industry-leading value.

ViON's high speed memory storage has set records in third-party audited benchmarks for both low cost-per-performance ratings and high application performance. Customers have reported "immediate and undeniable" return on investment through the installation of high speed modules. Nothing can beat their value for customers who need high performance storage.

HyperStor 4890 -- The Performance Leader

The right storage solution makes all the difference.

Government organizations and Fortune 500 companies use HyperStor to create reliable solutions for applications such as database acceleration, metadata storage, high definition video access/editing, enterprise resource planning (ERP), online transaction processing (OLTP), and SAN acceleration.

The *HyperStor 4890* incorporates specially designed 4-Gigabit Fibre Channel interfaces that include performance-enhancing hardware to reduce I/O latency to less than 15 microseconds. By serving I/O requests so quickly, a single *HyperStor 4890* interface executes significantly more requests per second than other Fibre Channel interfaces. By scaling high speed modules up to 8 units, each with 8 Fibre Channel links, the *HyperStor 4890* is the ultimate storage solution for high-performance applications in total I/Os per second (IOPS) and total bandwidth. Soon the system will support up to 4 x 10Gigabit InfiniBand ports. The *HyperStor 4890* is DRAM-based, so there is **no** penalty for random accesses. There's no need to tune data requests for performance. User access time is not compromised, even if tens of thousands of users access the system simultaneously. The HyperStor's extreme performance is unequalled.

About ViON

ViON Corporation is a small, veteran-owned corporation, established in 1980, and located in Washington, DC. We specialize in designing, delivering, and maintaining high-performance storage and server solutions for enterprise-wide data centers throughout the federal, state, and local governments. We excel in solutions addressing Enterprise Storage, Disaster Recovery, Server Consolidation, and Business Continuity in the NT, UNIX, and z/OS environments.



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Specifications (per Terabyte)	
I/Os per second	3,200,000
Capacity	1 TB
Bandwidth	24 GB/second
Fibre Channels: 2Gb, 4Gb	64 ports
InfiniBand (available soon)	32 ports
Size (rack-mounted)	42U
Power Consumption (peak)	Nominal/Peak: 2800/3600 Watts
Weight (maximum)	1,040 lbs.
Latency	<15 microseconds
Each Module Includes	
Disk Drives (backup)	4 Hot-Swap/module
Power Supplies	2 Hot-Swap/module
Batteries	3 Redundant/module