DATASHEET

Hitachi Adaptable Modular Storage 2500

For large and enterprise businesses, Hitachi Adaptable Modular Storage 2500 is a highly reliable, flexible and scalable storage system for Microsoft® Exchange Server, VMware, databases and other business applications. It also provides an optimal choice for tiered and standalone storage, consolidation, business continuity, data replication, backup and archiving.

Resilient, Enterprise-class Storage at a Modular Price

Burgeoning data growth and complex storage infrastructures are prevalent challenges facing most organizations today, along with the need for high availability, performance, scalability and data protection — usually all at once. Hitachi Data Systems understands these challenges and has developed a Services Oriented Storage approach to match application and business requirements to storage attributes. Now Hitachi Data Systems brings large and enterprise customers these proven solutions in modular, cost-effective packaging — the Hitachi Adaptable Modular Storage 2500.

Business Benefits

Cost-effective Performance
- Consolidate multiple storage systems into one; supports iSCSI, Fibre Channel and NAS on the same system.
- Hitachi Dynamic Load Balancing Controller delivers outstanding performance and non-disruptive operations; it is ideal for VMware environments.
- Reduce utility charges with Power Savings feature.

Simplified, Reliable, Integrated Storage
- Rely on 99.999 percent data availability.
- Minimize disruption and risk with no single point of failure and mirrored cache with battery backup.
- Improve administrative efficiencies with wizard-based installation and configuration.
- Centralize and manage multiple systems and automate data replication — all from a single pane of glass.
- Reduce time spent on configuration with Hitachi Data Systems solution-ready platforms that are certified and tested with the leading business applications. Detailed technical guides assist in getting the best performance and highest scalability possible.

Flexible, Scalable Business Growth
- Protect investments to meet the data storage growth requirements of any business with the ability to scale capacity to 472TB, performance to 900K IOPS and connectivity to 2048 virtual server ports.
- Expand as business grows with easy data-in-place upgrades.

Business Solutions

Hitachi Data Systems and its Hitachi TrueNorth Channel Partners offer industry leading technology to help organizations of all sizes meet their unique requirements for business continuity, regulatory compliance and data recovery. Together, we provide cost-effective storage products and solutions that leverage world renowned Hitachi global R&D resources to deliver performance, availability and scalability — supporting business critical applications and strengthening competitive advantage.

Modular Storage for Midsized Organizations
- Hitachi Adaptable Modular Storage 2500
- Hitachi Adaptable Modular Storage 2300
- Hitachi Adaptable Modular Storage 2100
- Hitachi Adaptable Modular Storage 1000
- Hitachi Adaptable Modular Storage 500
- Hitachi Adaptable Modular Storage 200
- Hitachi Workgroup Modular Storage 100

Hitachi Adaptable Modular Storage 2500 Specifications

Physical Characteristics

Raw capacity	188TB SAS 472TB SATA
Internal disk drives (SAS, unless otherwise noted)	146GB (15K RPM) 300GB (15K RPM) 400GB (10K RPM) 500GB SATA II (7200 RPM) 1TB SATA II (7200 RPM)
Disk drive interface	SAS and SATA
Host interfaces	Fibre Channel: 1, 2 or 4 Gb/sec iSCSI: GigE
Minimum/maximum number of disk drives	4 – 480
Model upgrade options	NA
Number of controllers	2
Maximum host connections	16 Fibre Channel or 8 iSCSI or 8 Fibre Channel and 4 iSCSI
Maximum attached hosts through virtual ports	2048
SAS links	32
Maximum number of LUNs	4096
Maximum LUN size	60TB

RAID Support

- RAID-0 (SAS drives only)
- RAID-1
- RAID-1+0
- RAID-5
- RAID-6

Maximum number of RAID groups	100

Availability

Nondisruptive component replacement	Major FRU
Nondisruptive hot-pluggable disks	YES
Nondisruptive microcode updates	YES
Hi-Track® Monitor	YES

Performance

Controller cache (per system)	16GB – 32GB
Cache binding	Hitachi Cache Residency Manager
Logical partitioning	Hitachi Cache Partition Manager

Software

Management software	Hitachi Storage Navigator Modular 2
Common APIs	YES — Across Hitachi data storage systems
Point-in-time copy	Hitachi ShadowImage® Replication software and Hitachi Copy-on-Write Snapshot software
Backup	Hitachi Data Protection Suite, powered by CommVault®
LUN change ownership	LUN Manager
LUN security	SAN Security software
LUN grow/LUN shrink	YES
Online RAID group expansion	YES
Move data between RAID groups	Modular Volume Migration software
System security	Account Authentication and Audit Logging
Host Storage Domains	Virtual Storage Ports, Multiple LUN0/port
Storage system–based "write once, read many" (WORM) data protection	Hitachi Data Retention Utility
SSL/TSL management software encryption	YES
Maintenance port security	IPv6, IPsec
SNMP agent support	YES
Performance monitor	YES
Heterogeneous SAN management	Hitachi Storage Command Suite software

Operating Systems Support

- Microsoft® Windows 2000, Windows Server 2003, Windows Server 2008, Hyper-V
- VMware
- IBM® AIX®
- HP-UX
- HP Tru64 UNIX
- Novell NetWare
- Linux
- HP OpenVMS
- Apple MAC OS
- IBM z/OS®, when externally attached to models of the Hitachi Universal Storage Platform™ family
- Sun Solaris

Note: All capacities are based on 1GB = 1,000,000,000 bytes; 1TB = 1000GB

Compliance and Data Protection

- RAID-6 ensures high availability and protection — any two drives can fail without the loss of any data.
- Hi-Track® Monitor for 24/7 diagnostics keeps potential issues from becoming problems.
- Within-system volume replication or incremental copies enable frequent backups.
- Flexible sparing eliminates the need to copy back after a RAID group rebuild.
- Audit logging tracks all system changes.
- Hitachi Data Retention Utility software protects data from overwrites or erasures for long periods of time.