DATASHEET

Hitachi Adaptable Modular Storage 2300

For large and enterprise businesses, Hitachi Adaptable Modular Storage 2300 is a highly reliable, flexible and scalable storage system for Microsoft® Exchange Server, VMware, databases and other business applications. It is also an optimal choice for tiered or 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 2300.

Business Benefits

Cost Effective Performance and Capacity

- 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 nondisruptive 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.
- Eliminate unplanned system downtime and run applications continuously, 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 for greater efficiencies 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 236TB, performance to 400K IOPS and connectivity to 1024 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 2300 Specifications

Raw capacity	236TB SATA
	105TB SAS
Internal disk drives	146GB (15K RPM)
(SAS, unless otherwise noted)	300GB (15K RPM) 400GB (10K RPM)
	450GB (15K RPM)
	500GB SATA II (7200 RPM)
	1TB SATA II (7200 RPM)
Disk drive interface	SAS and SATA
Host interfaces	Fibre Channel: 1, 2 or 4Gb/sec iSCSI: GigE
Minimum/maximum number	4 – 240
of disk drives	
Model upgrade options	Hitachi Adaptable Modular
	Storage 2500
Number of controllers	2
Maximum host connections	8 Fibre Channel
	or 4 iSCSI
Maximum attached hosts through	1024
virtual ports	
SAS links	16
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	75
Availability	
Nondisruptive component replacen	
Nondisruptive hot-pluggable disks Nondisruptive microcode updates	YES YES
Hi-Track® Monitor	YES
Performance	
Controller cache (per system)	8GB – 16GB
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
Remote copy (over IP and Fibre Channel networks)	Hitachi TrueCopy® Synchronous and Hitachi TrueCopy Extended Distance software
Point-in-time copy	Hitachi Shadowlmage® Replication 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
Storage Management Security	SSL/TLS
Maintenance Port Security	SSL/TLS
SNMP agent support	YES
Performance monitor	YES
Heterogeneous SAN management	Hitachi Storage Command Suite software
Operating Systems Support	
2000, Windows Nov	Hat Hitachi Universal SE Storage Platform™ family

Sun Solaris

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.

Hitachi Data Systems Corporation

■ HP-UX

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