

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 optimal choices 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 an approach to match application and business requirements to storage attributes. Now, Hitachi Data Systems brings large and enterprise organizations these proven solutions in modular, cost-effective packaging: Hitachi Adaptable Modular Storage 2500.

Business Benefits

Reduce Management, Facilities and Energy Costs

- Hitachi dynamic load balancing controllers automatically reduce controller bottlenecks; this is ideal for VMware environments.
- Hitachi Dynamic Provisioning software provides "virtual storage capacity" to eliminate application service interruptions, reduce costs and simplify administration.

- The High Density Storage Expansion Tray options hold up to forty-eight 3.5 inch disks in a 4U (176mm) high tray or twenty-four 2.5 inch disks in a 2U (88mm) high tray to reduce facility costs.
- The Hitachi power savings feature reduces utility charges.

Simplified, Reliable, Integrated Storage

- Rely on 99.999% 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 from a single pane of glass.
- Reduce time spent on configuration with Hitachi Data Systems solution-ready platforms, which 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 944TB, performance to 900K IOPS and connectivity to 2048 virtual server ports.
- Intermix high-performance SAS drives and cost-optimized SATA drives in the same system for tiered storage solutions.
- Attach to Fibre Channel and iSCSI storage networks for exceptional levels of storage consolidation.

Compliance and Data Protection

- RAID-6 for high availability and protection: any 2 drives can fail without data loss.
- Hi-Track® Remote Monitoring system 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.

- Self-encrypting drive option adds data security.
- Hitachi Data Retention Utility software protects data from overwrites or erasures for long periods of time.









HITACHI ADAPTABLE MODULAR STORAGE 2500 SPECIFICATIONS

Physical Characteristics		Software	
Raw capacity	944TB (2TB, 7200 RPM SAS or SATA) 276TB (600GB, 10K or 15K RPM SAS)	Management software	Hitachi Storage Navigator Modular 2 program
Internal disk drives (SAS, unless otherwise noted)	300GB SAS (10K RPM, 2.5 in.) 600GB SAS (10K RPM, 2.5 in.) 300GB SAS (15K RPM, 3.5 in.) 450GB SAS (15K RPM, 3.5 in.) 600GB SAS (15K RPM, 3.5 in.) 1TB SATA II (7200 RPM, 3.5 in.) 2TB SATA II (7200 RPM, 3.5 in.) 2TB SAS (7200 RPM, 3.5 in.)	Common APIs	YES — Across Hitachi data storage systems
		Thin provisioning software	Hitachi Dynamic Provisioning software
		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
Internal flash drives	200GB (SAS)	Backup	Hitachi Data Protection Suite, powered
Host interfaces	Fibre Channel: 8Gb/sec		by CommVault®
 Minimum/maximum number	iSCSI: GigE, 10GigE 4 – 480	Heterogeneous data replication	Hitachi Dynamic Replicator software
of disk drives		LUN change ownership	LUN manager feature
Maximum number of flash drives	60	LUN security	SAN security feature
Number of controllers	2	LUN grow/LUN shrink	YES
Host connection options	16 Fibre Channel, 8 Fibre Channel, 8 iSCSI, 4 iSCSI, or 8 Fibre Channel and 4 iSCSI	Online RAID group expansion	YES
		Move data between RAID groups	modular volume migration feature
Maximum attached hosts through virtual ports	2048	System security	account authentication and audit logging features
SAS links	32	Host Storage Domains	virtual storage ports and multiple LUNO/ port features
Maximum number of LUNs	4096	Storage system-based "write once,	Hitachi Data Retention Utility software
Maximum LUN size	60TB	read many" (WORM) data protection	
RAID Support		Storage management security	SSL/TLS
RAID-0 (SAS drives only)	■ RAID-1 ■ RAID-1+0	Maintenance port security	SSL/TLS
RAID-5	RAID-6	SNMP agent support	YES
Maximum number of RAID groups	5 100	Performance monitor	YES
Availability		Heterogeneous SAN management	Hitachi Command Suite software
Nondisruptive component replacement Major FRU Nondisruptive hot-pluggable disks YES		Operating Systems Support	
Nondisruptive microcode updates Hi-Track® Remote Monitoring syste	YES m YES	Microsoft WindowsHP True2000, WindowsNovell N	1-1-
Performance		Server 2003, Windows Server Oracle E	externally attached to
Controller cache		2008, Hyper-V Red Ha	t models of the Hitachi Universal Storage
	- 32GB cache residency manager feature	■ VMware ■ SUSE	Platform® family
	cache partition manager feature	■ IBM® AIX® ■ Asianux ■ HP-UX ■ HP Ope	- 3ui i 30iai is
		Note: All capacities are based on 1GB	= 1,000,000,000 bytes; 1TB = 1000GB

Corporate Headquarters

750 Central Expressway

Santa Clara, California 95050-2627 USA

www.HDS.com

Regional Contact Information

Americas: +1 408 970 1000 or info@hds.com

Europe, Middle East and Africa: +44 (0) 1753 618000 or info.emea@hds.com

(1) 600GB SAS (15K RPM) drive is optionally available with data encryption software.

Asia Pacific: +852 3189 7900 or hds.marketing.apac@hds.com

Hitachi is a registered trademark of Hitachi, Ltd., in the United States and other countries. Hitachi Data Systems is a registered trademark and service mark of Hitachi, Ltd., in the United States and other countries.

IBM, AIX and z/OS are registered trademarks of International Business Machines Corporation. All other trademarks, service marks and company names in this document or website are properties of their respective owners.

Notice: This document is for informational purposes only, and does not set forth any warranty, expressed or implied, concerning any equipment or service offered or to be offered by Hitachi Data Systems Corporation.