

Hitachi Adaptable Modular Storage 2100

For medium and large businesses, Hitachi Adaptable Modular Storage 2100 is an easy-to-use, scalable, cost-effective storage system for Microsoft Exchange Server, VMware, databases and other business applications. It is also a top choice for tiered and standalone storage, consolidation, business continuity, data replication, backup and archiving.



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 addresses these challenges by matching application and business requirements to storage attributes. Now, Hitachi Data Systems brings medium and large organizations these proven solutions in modular, cost-effective packaging: Hitachi Adaptable Modular Storage 2100.

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 Hitachi power savings feature reduces utility charges.

■ The high density storage expansion tray option holds 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.

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 administration with wizard-based installation and configuration.
- Centralize and manage multiple systems from a single pane of glass.
- Reduce time spent on configuration with Hitachi solution-ready platforms, which are certified and tested with 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 469TB and connectivity to 1024 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.
- Expand as business grows with easy data-in-place upgrades.

Compliance and Data Protection

- RAID-6 ensures high availability and protection: any 2 drives can fail without the loss of any data.
- 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 2100 SPECIFICATIONS

Physical Characteristics		Software	
Raw capacity	469TB (3TB, 7200 RPM SATA) 78TB (600GB, 15K RPM SAS)	Management software	Hitachi Storage Navigator Modular 2 program
Internal disk drives	300GB SAS (10K RPM, 2.5 in.) 600GB SAS (10K RPM, 2.5 in.) 300GB SAS (15K RPM, 3.5 in.) 600GB SAS (15K RPM, 3.5 in.) 3TB SATA II (7200 RPM, 3.5 in.) 2TB SAS (7200 RPM, 3.5 in.)	Common APIs	YES — across Hitachi data storage systems
		Thin provisioning	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
Internal flash drives	200GB (SAS)		and Hitachi Copy-on-Write Snapshot software
Host interfaces	Fibre Channel: 8Gb/sec iSCSI: GigE or 10GigE	Backup	Hitachi Data Protection Suite, powered by CommVault®
Minimum/maximum number of disk drives	4 – 159 (7200 RPM or 10K RPM) 4 – 136 (15K RPM)	Heterogeneous data replication	Hitachi Dynamic Replicator software
Maximum number of flash drives	30	LUN change ownership	LUN manager feature
Model upgrade options	Hitachi Adaptable Modular Storage	LUN security	SAN security feature
	2300, Hitachi Adaptable Modular	LUN grow/LUN shrink	YES
NI salas a financialis in	Storage 2500	Online RAID group expansion	YES
Number of controllers	2	Move data between RAID groups	Modular volume migration feature
Host connection options	4 Fibre Channel or 8 Fibre Channel or 4 Fibre Channel and 4 iSCSI	System security	Account authentication and audit logging feature
Maximum attached hosts through virtual ports	1024	Host Storage Domains	Virtual storage ports and multiple LUNO/ port feature
SAS links	16	Storage system-based "write once,	Hitachi Data Retention Utility software
Maximum number of LUNs	2048	read many" (WORM) data protection	
Maximum LUN size	60TB	Storage management security	SSL/TLS
RAID Support		Maintenance port security	SSL/TLS
RAID-0 (SAS drives only)	■ RAID-1 ■ RAID-1+0	SNMP agent support	YES
RAID-5	RAID-6	Performance monitor	YES
Maximum number of RAID groups	50	Heterogeneous SAN management	Hitachi Command Suite software
Availability		Operating Systems Support	
Nondisruptive component replacement Nondisruptive hot-pluggable disks Nondisruptive microcode updates Hi-Track® Remote Monitoring system	YES YES	Microsoft Windows 2000, Windows 2000, Windows Novell	NetWare IBM z/OS®, when externally attached to
Performance		2008, Hyper-V Red Ha	t models of the Hitachi Universal Storage
	ency manager feature on manager feature	■ VMware ■ IBM® AIX® ■ HP-UX ■ HP Ope	Platform® family Sup Solaris

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

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