

### 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 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.
- 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 1,417TB 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	1,417TB (3TB, 7200 RPM 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.) 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 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
Internal flash drives	200GB (SAS)		and Hitachi Copy-on-Write Snapshot software
Host interfaces	Fibre Channel: 8Gb/sec iSCSI: GigE, 10GigE	Backup	Hitachi Data Protection Suite, powered by CommVault®
Minimum/maximum number of disk drives	4 – 480	Heterogeneous data replication	Hitachi Dynamic Replicator software
Maximum number of flash drives	60	LUN change ownership	LUN manager feature
Number of controllers	2	LUN security	SAN security feature
Host connection options	16 Fibre Channel, 8 Fibre Channel, 8 iSCSI, 4 iSCSI, or 8 Fibre Channel	LUN grow/LUN shrink	YES
	and 4 iSCSI	Online RAID group expansion	YES
Maximum attached hosts through virtual ports	2048	Move data between RAID groups	modular volume migration feature
SAS links	32	System security	account authentication and audit logging features
Maximum number of LUNs	4096	Host Storage Domains	virtual storage ports and multiple LUNO/
Maximum LUN size	60TB	. ioot otorago zemamie	port features
RAID Support	- PAID 4	Storage system-based "write once, read many" (WORM) data protection	Hitachi Data Retention Utility software
<ul><li>RAID-0 (SAS drives only)</li><li>RAID-5</li></ul>	<ul><li>RAID-1</li><li>RAID-1+0</li><li>RAID-6</li></ul>	Storage management security	SSL/TLS
Maximum number of RAID groups	100	Maintenance port security	SSL/TLS
Availability		SNMP agent support	YES
Nondisruptive component replacem	ent Major FRU	Performance monitor	YES
Nondisruptive hot-pluggable disks	YES	Heterogeneous SAN management	Hitachi Command Suite software
Nondisruptive microcode updates YES Hi-Track <sup>®</sup> Remote Monitoring system YES		Operating Systems Support	
Performance  Controller cache (per system) 16GB - Cache binding Hitachi	- 32GB cache residency manager feature cache partition manager feature	Windows Server 2008, Hyper-V  Red Ha  VMware  SUSE	JetWare Enterprise Linux t  IBM z/OS®, when externally attached to models of the Hitachi Universal Storage Platform® family
<b>//</b>		■ IBM® AIX® ■ Asianux ■ HP-UX ■ HP Ope	<b>-</b> 3ul i 30ialis

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Note: All capacities are based on 1GB = 1,000,000,000 bytes; 1TB = 1000GB  $^{(1)}$  600GB SAS (15K RPM) drive is optionally available with data encryption software.

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