# Hitachi Adaptable Modular Storage 2500 and Adaptable Modular Storage 2500DC

For large and enterprise businesses, Hitachi Adaptable Modular Storage 2500 and Adaptable Modular Storage 2500DC are highly reliable, flexible and scalable storage systems for Microsoft® Exchange Server, VMware, databases and other business applications.

They also provide 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 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 2500DC.

# **Business Benefits**

# Reduce Management, Facilities and Energy Costs

- Hitachi Dynamic Load Balancing Controller automatically reduces controller bottlenecks; it is ideal for VMware environments.
- Hitachi Dynamic Provisioning software provides "virtual storage capacity" to eliminate application service interruptions, reduce costs and simplify administration.

- The Dense Expansion Tray option holds up to 48 disks in a 4U (176mm) high tray to reduce facility costs.
- The Power Savings feature reduces utility charges.

#### Simplified, Reliable, Integrated Storage

- Rely on 99.999 percent data availability.
- Minimize disruption/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 2500DC
- Hitachi Adaptable Modular Storage 2500
- Hitachi Adaptable Modular Storage 2300
- Hitachi Adaptable Modular Storage 2100

 Adaptable Modular Storage 2500DC has a NEBS-3/ETSI compliant, -48V DC power supply for Telcos and DC powered data centers.

# Hitachi Adaptable Modular Storage 2500 and Adaptable Modular Storage 2500DC Specifications

Raw capacity	472TB SATA 210TB SAS	
Internal disk drives (SAS, unless otherwise noted)	300GB (15K RPM) 450GB (15K RPM) 1TB SATA II (7200 RPM)	
Disk drive interface	SAS and SATA	
Host interfaces	8Gb/sec or 4Gb/sec iSCSI: GigE	
Minimum/maximum number of disk drives	4 – 480	
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-5	■ RAID-1 ■ RAID-1+0 ■ RAID-6	
Maximum number of RAID groups	100	
Availability		
Nondisruptive component replaceme Nondisruptive hot-pluggable disks Nondisruptive microcode updates Hi-Track <sup>®</sup> Monitor	t Major FRU YES YES YES	
Performance		
Controller cache (per system) Cache binding Logical partitioning	16GB – 32GB Hitachi Cache Residency Manager feature Hitachi Cache Partition Manager feature	

Software				
Management software		Hitachi Storage Navigator Modular 2 software		
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 and Hitachi Copy-on-Write Snapshot software		
Backup		Hitachi Data Protection Suite, powered by CommVault®		
Heterogeneous data replication		Hitachi Dynamic Replicator software		
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 software		
Storage Management Security		SSL/TLS		
Maintenance Port Security		SSL/TLS		
SNMP agent support		YES		
Performance monitor		YES		
Heterogeneous SAN manager	ment	Hitachi Storage Command Suite software		
Operating Systems Suppo	ort			
2000, Windows Server 2003, Windows Server 2008, Hyper-V™	Nove	Il NetWare e Enterprise	■ HP OpenVMS ■ Apple MAC OS ■ IBM z/OS®, when externally attached to models of the Hitachi	

Universal Storage

Platform® family

■ Sun Solaris

#### Compliance and Data Protection

- RAID-6 for high availability and protection: any two drives can fail without data loss.
- 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

VMware

■ IBM® AIX®

■ HP-UX

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