DATASHEET

Hitachi Adaptable Modular Storage 1000

For medium- to large-sized businesses, Hitachi Adaptable Modular Storage 1000 is a flexible, scalable, cost-effective storage system for Microsoft[®] Exchange Server, ERP, CRM and other business applications, as well as tiered and standalone storage, consolidation, SAN deployment, backup or data archiving.

Enterprise-class Solutions at a Modular Price

Medium-sized businesses are facing big company challenges of escalating data growth, availability and protection as well as regulatory compliance and complex storage infrastructures. With many years of experience serving FORTUNE 500® companies, Hitachi Data Systems understands these challenges and has developed Services Oriented Storage Solutions to match application and business requirements to storage attributes. Now Hitachi Data Systems brings medium and midsized customers these proven solutions in modular, cost-effective packaging — including Hitachi Adaptable Modular Storage 1000.

Business Benefits

High-end Performance and Capacity

- Move from server-internal storage to scalable external storage, consolidate multiple storage systems into one or build a first storage area network (SAN); iSCSI and/or Fibre Channel are supported.
- Deliver application-specific performance, availability and protection across systems
 from a few terabytes (TB) to 424TB
 - with both Serial ATA (SATA) and Fibre Channel drives.
- Consolidate Fibre Channel and iSCSI storage onto a single platform.

- Use advanced features Cache Partition Manager and RAID-6 — to help improve performance, reliability and usability.
- Partition and dedicate cache to maximize performance of high-I/O applications.
- Reduce utility charges with Power Savings Service.
- Support outstanding performance for virtually any workload with 4,096 logical units (LUNs).
- Choose Fibre Channel, SATA II or intermix to host any workload on the most economical storage system.

Consolidate Storage, Expect Growth

- Consolidate and centralize management to reduce costs.
- Scale capacity to over 424TB (SATA-Fibre Channel intermix) or to 176TB (Fibre Channel).
- Combine with Hitachi enterprise-class storage for complete data lifecycle management solutions within a tiered storage environment.

Ensure Compliance, Protection

- Enhanced SATA data protection provides unmatched data availability and resiliency.
- RAID-6 ensures high availability and flexibility in RAID group rebuild.

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 1000
- Hitachi Adaptable Modular Storage 500
- Hitachi Adaptable Modular Storage 200
- Hitachi Workgroup Modular Storage 100

Adaptable Modular Storage 1000 Specifications

Raw capacity	424.9TB Fibre Channel–SATA Intermix 176.7TB Fibre Channel	
Internal disk drive operations (Fibre Channel, unless otherwise noted)	73GB (15K RPM) 146GB (15K RPM) 300GB (10K & 15K RPM) 400GB (10K RPM) 500GB SATA (7200 RPM) 750GB SATA (7200 RPM) 1TB SATA (7200 RPM)	
Disk drive interface	SATA-Fibre Channel intermix	
Host interface	Fibre Channel: 8 @ 1, 2, or 4 Gb/sec iSCSI: 4 @ 1Gb/sec	
Minimum/maximum number of disk drives	4-450 Fibre Channel 0-420 SATA	
Model upgrade options	NO	
Number of controllers	2	
Maximum host connections	8 Fibre Channel OR 4 iSCSI OR 4 Fibre Channel AND 4 iSCSI	
Maximum attached hosts through vir	tual ports 1024	
Active loops per number of disk drive (Active loops per drive tray/disk drive		
LUNs	4096	
RAID Support		
RAID-0 (Fibre Channel only)	RAID-1 RAID-1+0	
■ RAID-5	RAID-6	
Availability		
Nondisruptive component replaceme Nondisruptive hot-pluggable disks Nondisruptive microcode updates Hi-Track® Monitor	ent MAJOR FRU YES YES YES	

Minimum-maximum cad	che 4GB-16GB		
Cache binding	Hitachi Cache Residency Manager feature		
Logical partitioning	Hitachi Cache Partition Manager feature 4-32 partition:		
Software			
Management software	Hitachi Resource Manager utility package and Hitachi Storage Command Suite		
Common APIs	YES — across Hitachi data storage systems		
Remote copy	Hitachi TrueCopy® Synchronous and Hitachi TrueCopy Extended Distance software		
Point-in-time copy	Hitachi Shadowlmage® Replication software and Hitachi Copy-on-Write Snapshot software		
Backup	Hitachi Data Protection Suite, powered by CommVault		
Nondisruptive volume m	nigration		
LUN security	Hitachi Volume Security software		
Host Storage Domains;	Virtual Storage Ports; Multiple	e LUN0/port	
Storage system-based read many" (WORM) da		etention Utility	
Dynamic LUN managem	ent YES		
Host failover	Hitachi Dynamic Link Manager software		
Heterogeneous SAN ma	agement Hitachi Storage Command Suite software		
Operating Systems S	Support		
■ IBM® AIX®	Sun Solaris	■ VMWare	
■ HP-UX	■ HP Tru64 UNIX	Apple MAC OS	
Microsoft Windows2000, Windows	SGI IRIXNovell NetWare	 IBM z/OS[®], when externally attached to 	

Note: All capacities are based on 1GB = 1,000,000,000 bytes; 1TB = 1000GB

■ HP OpenVMS

Linux

models of the Hitachi

Universal Storage

Platform[™] family

- Hi-Track® Monitor for 24/7 diagnostics keeps potential issues from becoming problems.
- Fully redundant and hot-swappable components keep applications online.
- Within-system volume replication or incremental copies provide frequent and nondisruptive backups.
- Remote replication is enabled by Hitachi TrueCopy[®] Remote Replication software bundle.
- Flexible sparing eliminates the need to copy back after a RAID group rebuild.
- Audit logging keeps track of all system changes.
- Account authorization limits authority to change the system.

Hitachi Data Systems Corporation

Server 2003

Microsoft Simple

SAN compliant

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