



Hitachi TagmaStore™ Adaptable Modular Storage Model AMS1000

For medium-to-large businesses, model AMS1000 provides a very flexible, scalable, cost-effective modular storage system for Microsoft Exchange Server, ERP, CRM, and other business applications, 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 Application Optimized Storage™ solutions to match application requirements to storage attributes.

Now Hitachi Data Systems brings midsized customers these proven solutions in modular, cost-effective packaging—including the Hitachi TagmaStore™Adaptable Modular Storage model AMS1000.

Business Benefits

Gain high-end performance and capacity, priced for the midrange

- Move from server-internal storage to scalable external storage, consolidate multiple storage systems into one, or build a first storage area network (SAN); either iSCSI and/or Fibre Channel connectivity are supported.
- Use NAS connectivity options for collaborative file-sharing applications.
- :: Consolidate SAN, iSCSI, and NAS onto a single platform (any two protocols supported).
- Deliver application-specific performance, availability, and protection

- across systems—from a few terabytes to more than 170TB—with both Serial ATA (SATA) and Fibre Channel drives.
- 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.
- Support outstanding performance for virtually any workload with 4,096 logical units (LUNs).
- :: Choose between SATA intermix and Fibre Channel to host any workload on the most economical storage system.

Consolidate storage, anticipate growth

- Consolidate and centralize management to reduce costs.
- Scale to over 170TB of SATA and Fibre Channel intermix or to 129TB of Fibre Channel storage capacity.

Meet compliance requirements, protect data, and reduce recovery times

- Enhanced SATA data protection provides unmatched data availability and resiliency.
- RAID-6 ensures high availability and flexibility in RAID group rebuild.
- :: Hi-Track® "call-home" service/remote maintenance tool for 24/7 diagnostics keeps potential issues from becoming problems.
- Fully redundant and hot-swappable components keep your applications online.

Modular Storage for the Midrange Market

- Hitachi TagmaStore™ Adaptable
 Modular Storage model AMS1000
- :: Hitachi TagmaStore™ Adaptable Modular Storage model AMS500
- Hitachi TagmaStore™ Adaptable Modular Storage model AMS200
- Hitachi TagmaStore™ Workgroup Modular Storage model WMS100

- :: Within-system volume replication or incremental copies provide frequent and nondisruptive backups.
- Remote replication is enabled by Hitachi TrueCopy™ Remote Replication software.

Extend an existing SAN or deploy in a tiered architecture

Manage and configure your systems using Storage Management and Hitachi HiCommand® Suite software.

- :: Extend your SAN to smaller servers using iSCSI connect option (AMS1000 supports dual protocols).
- :: Employ archival and long-term tamperproof data retention to meet regulatory requirements.
- :: Combine with Hitachi enterprise-class storage for complete data lifecycle management solutions within a tiered storage environment.



Adaptable Modular Storage—Model AMS1000 Specifications

Physical Characteristics		Cache binding	Hitachi Cache Residency Manager feature
Raw capacity	173.8TB* SATA Intermix 129.4TB Fibre Channel	Logical partitioning	Hitachi Cache Partitior Manager feature
Internal raw capacity (300GB Fibre Channel, 400GB SATA)	73GB (10K & 15K RPM) 146GB (10K & 15K RPM)		4–32 partitions
	300GB (10K RPM) 250GB SATA (7200 RPM) 400GB SATA (7200 RPM) 500GB SATA* (7200 RPM)	Software	
		Management software	Hitachi Resource Manager™ utility package Storage Management and
Disk drive interface	SATA–Fibre		Hitachi HiCommand® Suite
Minimum/maximum	Channel Intermix 4–450 Fibre Channel	Common APIs Remote copy	YES—across Hitach storage systems
number of disk drives	0-420 SATA		Hitachi TrueCopy™ Remote
Model upgrade options	NO		Replication (synchronous)
Number of controllers	2	Point-in-time copy	Hitachi Shadowlmage™ In-System Replication
Maximum host connections	Fibre Channel: 8 @ 1,2, or 4 Gbit/sec OR 4 Fibre Channel ports AND iSCSI: 4 @ 1Gbit/sec OR NAS: 8 @ 1Gbit/sec	Hit	tachi Copy-on-Write Snapshot
(AMS1000 supports Fibre Channel, NAS, and iSCSI; any two protocols		Backup	Hitachi Data Protection Suite powered by CommVault
supported on same device)		LU-change-ownership	
Maximum attached hosts through virtual ports	1024	LUN security	Hitachi Volume Security
Active loops per number of disk drives	8/15	Host Storage Domains; Virtual Storage Ports; Multiple LUN0/port	
	4006	Storage system-based	Hitachi Data Retention Utility
Maximum LUNs	4096	"write once, read many" (WORM) data protection	
Availability		Dynamic LUN managem	ent YES
Nondisruptive component replacement	MAJOR FRU	, ,	
Nondisruptive hot-pluggable disks		Host failover	Hitachi HiCommand ^o Dynamic Link Manage
Nondisruptive microcode up		Heterogeneous	Hitachi HiCommand® Suite
Hi-Track® "call-home" service		SAN management	
maintenance tool	remote	RAID Support	
Performance		:: RAID-0 (Fibre Channel only) :: RAID-5	
Minimum-maximum cache 4GB–16GB		RAID-1 RAID-1+0	∷ RAID-6

Operating Systems Support

- IBM® AIX®
- :: HP-UX
- Sun Solaris
- :: Microsoft Windows 2000, Windows Server 2003
- :: Microsoft Simple SAN compliant
- :: HP Tru64 UNIX
- :: SGI IRIX

- :: Novell NetWare
- :: Linux
- :: HP OpenVMS
- :: VMWare
- :: Apple MAC OS
- IBM z/OS®, when externally attached to the Hitachi TagmaStore Universal Storage Platform or Network Storage Controller

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

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