

Hitachi TagmaStore™ Adaptable Modular Storage Model AMS200

For small-to-midsized businesses, model AMS200 offers a highly scalable, reliable, and cost-effective platform for Microsoft Exchange Server and other business applications, tiered storage, consolidation, NAS, first SAN deployment, backup, or data archiving.

Enterprise-class Solutions for SMB Customers

Small-to-midsized businesses (SMBs) 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 SMB customers these proven solutions in modular, cost-effective packaging—including the Hitachi TagmaStore™ Adaptable Modular Storage model AMS200.

Business Benefits

Manage storage costs while ensuring scalability, reliability, and flexibility

- 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 or Fibre Channel connectivity is supported.
- Use NAS connectivity options for collaborative file-sharing applications.
- Match the value of your data to the cost of storage with a system that supports native Fibre Channel SAN and cost-effective Serial ATA (SATA) intermix drives.

- Scale to 39.7TB of SATA and Fibre Channel storage (intermix) to keep up with data growth.
- Support very large numbers of servers and applications with 512 LUNs.
- Benefit from easy-to-use software utilities for configuration and management.
- Migrate volumes from Fibre Channel to SATA or expand RAID groups without interrupting the application or server.
- 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.

Protect critical data

- Enhanced SATA data protection for unmatched data availability and resiliency
- RAID-6 for high availability and rapid RAID group rebuild
- Hi-Track® “call-home” service/remote maintenance tool for 24/7 diagnostics to keep potential issues from becoming problems
- Fully redundant and hot-swappable components to keep applications online
- Within-system volume replication or incremental copies for frequent backups

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

Build a first storage network or extend an existing one

- ⌘ Plug-and-play SAN Kits for Microsoft Simple SAN and SAN Starter solutions for easy deployment
- ⌘ Diskless boot for SAN-attached servers
- ⌘ High-capacity storage for network attached storage (NAS) applications
- ⌘ Systems management and configuration using Storage Management and Hitachi HiCommand® Suite software

Leverage for SMB applications or enterprise tiered storage deployments

- ⌘ Microsoft Exchange Server, ERP, CRM, database, NAS filer, backup applications, or tape replacement
- ⌘ Archival and long-term tamper-proof data retention to meet regulatory requirements
- ⌘ Complete data lifecycle management solutions within a tiered storage environment when combined with Hitachi enterprise-class storage

Adaptable Modular Storage—Model AMS200 Specifications

Physical Characteristics	
Raw capacity	49.5TB SATA Intermix 31.5 Fibre Channel
Internal disk drive operations (Fibre Channel, unless otherwise noted)	73GB (10K & 15K RPM) 146GB (10K & 15K RPM) 300GB (10K RPM) 250GB SATA (7200 RPM) 500GB SATA (7200 RPM)
Disk drive interface	SATA—Fibre Channel Intermix
Minimum/maximum number of disk drives	4–105 Fibre Channel 0–90 SATA
Model upgrade options	AMS500 (upgradable on Fibre Channel versions)
Number of controllers	1 or 2 (dual-controller support for iSCSI and NAS configurations only)
Maximum host connections	Fibre Channel: 4 @ 1, 2, or 4Gbit/sec (4Gbit/sec ports optional) iSCSI: 4 @ 1Gbit/sec NAS: 8 @ 1Gbit/sec
Maximum attached hosts through virtual ports	512
Active loops per number of disk drives	2/15
LUNs	512
RAID Support	
⌘ RAID-0 (Fibre Channel only)	⌘ RAID-5
⌘ RAID-1	⌘ RAID-6
⌘ RAID-1+0	
Availability	
Nondisruptive component replacement	MAJOR FRU
Nondisruptive hot-pluggable disks	
Nondisruptive microcode updates	
Hi-Track® “call-home” service/remote maintenance tool	

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

Performance	
Minimum-maximum cache	1GB–4GB
Cache binding	Hitachi Cache Residency Manager feature
Logical partitioning	Hitachi Cache Partition Manager feature 2–8 partitions
Software	
Management software	Hitachi Resource Manager™ utility package, Storage Management and Hitachi HiCommand® Suite
Common APIs	YES—across Hitachi storage systems
Point-in-time copy	Hitachi ShadowImage™ In-System Replication, Hitachi Copy-on-Write Snapshot
Backup	Hitachi Data Protection Suite, powered by CommVault®
LU-change-ownership	
LUN security	Hitachi Volume Security
Host Storage Domains; Virtual Storage Ports; Multiple LUN0/port	
Storage system-based “write once, read many” (WORM) data protection	Hitachi Data Retention Utility
Dynamic LUN management	YES
Host failover	Hitachi HiCommand® Dynamic Link Manager
Heterogeneous SAN management	Hitachi HiCommand® Suite

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