Hitachi TagmaStore™ Adaptable Modular Storage Model AMS500

For small and medium-sized businesses, model AMS500 provides a scalable, cost-effective, high-end modular storage system for Microsoft Exchange Server and other business applications, tiered and standalone storage, consolidation, first SAN deployment, backup, or data archiving.

Enterprise-class Solutions for SMB Customers

Small and medium-sized 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 AMS500.

Business Benefits

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

:: Build cost-effective storage solutions for standalone, branch-office deployment, or tiered storage configurations based on Hitachi TagmaStore™ Universal Storage Platform or TagmaStore Network Storage Controller.

:: Deliver application-specific performance, availability, and protection across systems - from a few terabytes to more than 88TB, 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 maximise performance of high-I/O applications.

:: Support outstanding performance for virtually any workload, with 2,048 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 centralise management to reduce costs.

:: Scale to 88.5TB of SATA and Fibre Channel intermix or to 67.5TB 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 rapid RAID group rebuild times.

:: 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.

:: Within-system volume replication or incremental copies provide frequent and nondisruptive backups.

Modular Storage for the Midrange Market

:: Hitachi TagmaStore™ Network Storage Controller

:: Hitachi Thunder 9585V™ ultra high-end modular storage

:: Hitachi TagmaStore™ Adaptable Modular Storage model AMS500

:: Hitachi TagmaStore™ Adaptable Modular Storage model AMS200

:: Hitachi TagmaStore™ Workgroup Modular Storage model WMS100

Extend an existing SAN

:: Manage and configure your systems using Hitachi HiCommand® Suite and Storage Area Management (SAM) software.

:: Protect and build on existing investments in Hitachi Thunder 9500™ V Series systems with the more-advanced, flexible, and powerful capabilities of the AMS500.

Adaptable Modular Storage - Model AMS500 Specifications

Physical Characteristics

Raw capacity	88.5TB SATA Intermix
	67.5TB Fibre Channel
Disk drive technology options - Fibre Channel unless otherwise noted	73GB (10,000RPM)
	73GB (15,000RPM)
	146GB (10,000RPM)
	300GB (10,000RPM)
	250GB SATA (7200RPM)
	400GB SATA (7200RPM)
Disk drive interface	SATA–Fibre Channel Intermix
Minimum/maximum number of disk drives	5–225 Fibre Channel
	0–210 SATA
Model upgrade options	No
Number of controllers	1 or 2
Host Fibre Channel connections	4 at 1Gbit/sec, 2Gbit/sec, or 4Gbit/sec
Maximum attached hosts (virtual ports)	512
Active loops per number of disk drives	4/15
LUNs	2048

RAID Support

:: RAID-0 (Fibre Channel only)   :: RAID-5
:: RAID-1   :: RAID-6
:: RAID-0+1

Availability

Nondisruptive component replacement	MAJOR FRU
Nondisruptive hot-pluggable disks	
Nondisruptive microcode updates	
Hi-Track® "call-home" service/remote maintenance tool	

Performance

Maximum cache	2–8GB
Cache binding	Hitachi Cache Residency Manager feature
Cache partitioning	

Software

Management software	Hitachi Resource Manager™ utility package, Hitachi HiCommand® Suite and Storage Area Management (SAM)
Common APIs	YES - across Hitachi storage systems
Remote copy	Hitachi TrueCopy™ Remote Replication (synchronous)
Point-in-time copy	Hitachi ShadowImage™ In-System Replication, Hitachi Copy-on-Write Snapshot
Serverless disk copy and tape	Hitachi Cross-System Copy to/from Hitachi TagmaStore™ Universal Storage Platform and Hitachi Lighting 9900™ V Series systems
LU-change-ownership	
LUN security	Hitachi Volume Security
Host Storage Domains virtual private storage Multiple LUN0/port	
Storage system–based "write once, read many" (WORM) data protection	Hitachi Data Retention Utility
Dynamic LUN management	Logical Volume Concatenation
Host failover	Hitachi Dynamic Link Manager™ path manager
Heterogeneous SAN management	HiCommand Storage Services Manager and HiCommand Path Provisioning Manager, both powered by ApplQ

Operating Systems Support

:: IBM® AIX®
:: HP-UX
:: Sun Solaris
:: Microsoft Windows NT, Windows 2000, Windows Server 2003
:: HP Tru64 UNIX
:: SGI IRIX
:: Novell NetWare

:: LINUX
:: HP OpenVMS
:: NetApp® Data ONTAP, via HDS-NetApp Enterprise NAS Gateway
:: IBM z/OS®, via Universal Storage Platform external attachment
:: VMWare
:: Apple MAC OS

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