

Hitachi TagmaStore™ Workgroup Modular Storage Model WMS100

For small-to-midsized businesses, the all-SATA model WMS100 offers a highly scalable, reliable, and cost-effective platform for Microsoft Exchange Server and other business applications, consolidation, first SAN deployment, NAS access, 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™ Workgroup Modular Storage model WMS100.

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 supported.
- Use NAS connectivity options for collaborative file-sharing applications.

- Scale to over 41TB of Serial ATA (SATA) storage 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.
- Use advanced features—Cache Partition Manager and RAID-6—to help improve performance, reliability, and usability.
- Provision your storage directly from Microsoft Windows using the Plug-and-play SAN Kit from Hitachi Data Systems, the first Microsoft-designated Simple SAN Solution for Windows Server Environments.
- 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
- 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
- ⌘ Diskless boot for SAN-attached servers
- ⌘ High-capacity storage for network attached storage (NAS) applications
- ⌘ System management and configuration using Storage Management and Hitachi HiCommand® Suite software

Leverage for SMB applications or enterprise tiered storage deployments

- ⌘ SMB business applications such as: Microsoft Exchange Server, ERP, CRM, NAS filer, backup applications, or tape replacement
- ⌘ Archival and long-term tamper-proof data retention to meet regulatory requirements
- ⌘ Combine with Hitachi enterprise-class storage for complete data lifecycle management solutions within a tiered storage environment

Workgroup Modular Storage—Model WMS100 Specifications

Physical Characteristics

Raw capacity	52.5TB SATA
Internal disk drive options	250GB SATA (7200 RPM) 500GB SATA (7200 RPM)
Disk drive interface	SATA
Minimum/maximum number of disk drives	4–105 SATA
Model upgrade options	NO
Number of controllers	1 or 2
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
Maximum LUNs	512

RAID Support

- ⌘ RAID-1
- ⌘ RAID-5
- ⌘ RAID-1+0
- ⌘ RAID-6

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

Performance

Minimum-maximum cache	512MB–2GB
Cache binding	Hitachi Cache Residency Manager feature
Logical partitioning	Hitachi Cache Partition Manager feature 2-6 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

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

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Corporate Headquarters

750 Central Expressway
Santa Clara, California 95050-2627
U.S.A.
Phone: 1 408 970 1000
www.hds.com
info@hds.com

Asia Pacific and Americas

750 Central Expressway
Santa Clara, California 95050-2627
U.S.A.
Phone: 1 408 970 1000
info@hds.com

Europe Headquarters

Sefton Park
Stoke Poges
Buckinghamshire SL2 4HD
United Kingdom
Phone: +44 (0) 1753 618000
info.eu@hds.com

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