

Hitachi Workgroup Modular Storage 100

For small and midsize organizations, the all-SATA Hitachi Workgroup Modular Storage 100 offers a highly scalable, reliable and cost-effective platform for Microsoft® Windows and other business applications, consolidation, first SAN deployment, backup or data archiving.

Enterprise-class Solutions for Small and Midsize Customers

Small and midsize organizations face the big company challenges of escalating data growth, availability and data 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 that match business requirements to storage attributes. With Hitachi Workgroup Modular Storage 100, Hitachi Data Systems provides proven solutions in a cost-effective package.

Business Benefits

- 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.
- Scale to over 103TB of Serial ATA (SATA) storage to keep up with data growth.
- Support very large numbers of servers and applications with 512 LUNs.
- Use advanced features — Cache Partition Manager and RAID-6 — to help improve performance, reliability and usability.

- Benefit from easy-to-use software utilities for configuration and management.
- Provision your storage directly from Microsoft Windows using the Plug-and-play SAN Kit for Hitachi Modular Storage, the first Microsoft designated Simple SAN Solution for Windows Server Environments.
- Partition and dedicate cache to maximize performance of high-I/O applications.
- Power Savings Service reduces utility charges.
- Flexible sparing eliminates the need to copy back after a RAID group rebuild.
- Audit logging tracks all system changes.
- Account authorization limits authority to change the system.

Protect Critical Data

- Enhanced SATA data protection for unmatched data availability and resiliency
- RAID-6 for high availability
- Hi-Track® Monitor for 24/7 diagnostics
- Fully redundant and hot-swappable components to keep applications online
- Within-system volume replication or incremental copies for frequent backups

Build a First Storage Network or Extend an Existing One

- Plug-and-play SAN Kit for Hitachi Modular Storage (for Microsoft Simple SAN and SAN Starter solutions)

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 Midsize Organizations

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

Workgroup Modular Storage 100 Specifications

Physical Characteristics

| | |
|---|---|
| Raw capacity | 103.3TB SATA |
| Internal disk drive options | 500GB SATA (7200 RPM) 750GB SATA (7200 RPM) 1TB SATA (7200 RPM) |
| Disk drive interface | SATA |
| Host interface | Fibre Channel: 4 @ 1, 2, or 4 Gb/sec iSCSI: 4 @ 1Gb/sec |
| Minimum/maximum number of disk drives | 4–105 SATA |
| Model upgrade options | NO |
| Number of controllers | 1 or 2 |
| Maximum host connections (Workgroup Modular Storage 100 supports Fibre Channel and iSCSI on same device with an optional bridge) | 4 Fibre Channel OR 4 iSCSI |
| Maximum attached hosts through virtual ports | 512 |
| Active loops per number of disk drives (Active loops per drive tray/disk drives per tray) | 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® Monitor | |

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 and Hitachi Storage Command Suite |
| Common APIs | YES — across Hitachi storage systems |
| Point-in-time copy | Hitachi ShadowImage® Replication software, Hitachi Copy-on-Write Snapshot software, and 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 Dynamic Link Manager |
| Heterogeneous SAN management | Hitachi Storage Command Suite |

Operating Systems Support

- IBM® AIX®
- HP-UX
- Microsoft Windows 2000, Windows Server 2003
- Microsoft Simple SAN compliant
- Sun Solaris
- HP Tru64 UNIX
- SGI IRIX
- Novell NetWare
- Linux
- HP OpenVMS
- VMWare
- Apple MAC OS
- IBM z/OS®, when externally attached to any model of the Hitachi Universal Storage Platform™ family

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

- Diskless boot for SAN-attached servers
- System management and configuration using Hitachi Storage Command Suite software

Leverage for Applications or Enterprise Tiered Storage Deployments

- Small and midsized business applications such as: Microsoft Exchange Server, ERP, CRM, backup applications or tape replacement
- Archival and long-term tamperproof data retention to meet regulatory requirements
- Combined with Hitachi enterprise-class storage to create complete data lifecycle management solutions within a tiered storage environment

Compliments of:

 Hitachi Data Systems Corporation



3835R E. Thousand Oaks Blvd. #315
Westlake Village, CA 91362
Tel 877.230.2837 / Fax 805.435.2500
www.ess-direct.com

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