

Hitachi Simple Modular Storage 100

Hitachi Simple Modular Storage 100 is a simple and reliable solution for small and medium businesses (SMBs) that offers enterprise-class storage features and data protection solutions. Simple Modular Storage is ideal for growing businesses looking for storage systems that are easy to install and manage, and easy to integrate with applications such as Microsoft® Windows and others common to the small business segment.

If your business is like most SMBs, you don't have a team of storage experts to install or manage your storage platforms. With Hitachi Simple Modular Storage, a team of experts is not needed. You can install this cost effective platform in minutes. The installation and configuration software is wizard driven. After setup, operation of the storage system is largely hands off. Hitachi Simple Modular Storage is designed to run for years without disruption. You can spend your valuable resources on managing, securing and growing your business without the cost or complexity associated with disparate storage systems management on servers.

Feature Highlights

While Hitachi Simple Modular Storage may be easy to install and simple to manage, it also offers powerful, enterprise-class features that are more common in higher priced and more complex storage solutions, including:

High Availability. Simple Modular Storage offers storage with no single point of failure. In simple terms, this means that multiple things can go wrong and you're still in business. If one controller is unavailable, all data volumes are still available via a second controller. And what happens if a drive fails? No problem.

Simple Modular Storage makes use of RAID-6 technology for nondisruptive operation. In a RAID-6 configuration, any two drives can fail at the same time — a highly unlikely event — and you still haven't lost any data.

Simple Maintenance. Should a disk drive fail, your Simple Modular Storage will continue to operate as if nothing happened since RAID-6 configurations allow any two drives to fail without losing data. The easy-to-use Hitachi Storage Navigator Modular 2 software will notify you that a drive has malfunctioned and direct you to contact the support center, which will send a replacement. Once it arrives, just plug the new disk into one of the two repair slots on the device. You don't even have to take out the faulty disk. The system automatically rebuilds the RAID group. Should you ever need to replace the entire unit, just put the new Simple Modular Storage in place, plug it in, point and click the easy-to-use, automated copy software and your data is copied from the old system to the new one.

Built-in Data Protection. Data protection tasks are simplified with point-and-click, graphical user interface (GUI)-based Hitachi Copy-on-Write Snapshot software. This software is included to quickly replicate volume

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.

Complementary/Optional Software

- Hitachi ShadowImage® Replication in-system software for full volume backups and recovery (available on dual controller models)
- Hitachi Simple Data Recovery¹ software for asynchronous copy between Simple Modular Storage devices (available on dual controller models)

changes via point-in-time snapshots without impacting host server performance. For more complex copy and restore operations, optional Hitachi ShadowImage® Replication software is available. It gives you a nondisruptive way to create multiple copies of any accessible data within a Simple Modular Storage system. Hitachi Simple Data Recovery¹ software is also available, as an option, for asynchronous remote replication between Simple Modular Storage systems at separate locations.

Simple Upgrades¹. Upgrading to higher capacity or performance is straightforward with a simple and secure auto migration feature. Should you need additional capacity, just install another Hitachi Simple Modular Storage model and attach it to your existing system. The patented auto migration feature automatically copies your data to the new unit.

SAS or SATA II Hard Disk Drive (HDD)

Support. A Serial Attached SCSI (SAS) interface helps improve storage performance and enable continuous access to disks, even if an internal link fails. Simple Modular Storage supports 146GB 15K RPM SAS, 300GB 15K RPM SAS, 400GB 10K RPM SAS, 500GB SATA II, 750GB SATA II or 1TB SATA II drives. Any workload can be hosted economically. You won't find this next generation of iSCSI or Fibre Channel technology in comparable products.

Unsurpassed Interoperability. Hitachi Simple Modular Storage connects to all major servers and operating systems, including: HP-UX, IBM® AIX®, Microsoft Windows 2003, Microsoft Windows 2008, Microsoft Vista, Microsoft XP, Novell Netware, Red Hat Linux, Red Flag Linux, Suse Linux, Sun Solaris, VMware and MAC OS².

Green, Eco-friendly. Cost efficient and power efficient Simple Modular Storage is fully compliant with RoHS (Reduction of Hazardous Substances) regulations, which limit the use of hazardous materials in electronic equipment.

Hitachi Simple Modular Storage 100 Specifications

- iSCSI controller model options
 - Single controller: two 1Gb/sec Ethernet ports
 - Dual controllers: four 1Gb/sec Ethernet ports
 - Fibre Channel controller model option
 - Dual controllers: four 4Gb/sec Fibre Channel ports
 - Single controller model: 1GB cache memory and support for up to 1,024 logical volume (LUNs)
 - Dual controller model: 2GB cache memory and support for up to 2,048 logical volume (LUNs)
 - All models: complete data protection, even in the event of any two disk drive failures via either SAS or SATA II HDDs (suitable for any application workload) in RAID-6 (dual parity) format
 - All models: two easy-to-access repair slots, enabling quick, simple HDD replacement
- All models: Hitachi Storage Navigator Modular 2 software for simple GUI-based storage management, including installation and configuration, volume provisioning and security, and backup and restore (internal and remote)
 - Available for dual controller models: Hitachi Copy-on-Write Snapshot software for point-in-time data backup and storage of up to 15 copies of each volume

Operational Specifications

Height: 2u, 87mm, 3.425 inches
 Width: 482.6mm, 19 inches
 Depth: 731.4mm, 28.8 inches
 Weight: 30kg, 66.1lbs (maximum)
 Power: 800VA (at power-on and normal state)
 Supply: 100-120 volts, 200-240 volts
 Noise: 58dcb @ 28cm, 11 inches

Capacity/HDD Options

Drive density (raw) and speed model capacity*	500GB SATA 7200RPM	750GB SATA 7200RPM**	1TB SATA 7200RPM	146GB SAS 15000RPM	300GB SAS 15000RPM	400GB SAS 10000RPM
6 HDD configuration	2TB****	3TB	4TB	584GB	1.2TB	1.6TB
8 HDD configuration	3TB	4.5TB	6TB	876GB	1.8TB	2.4TB
12 HDD configuration***	4.5TB	6.75TB	9TB	1.314TB	2.7TB	3.6TB

* RAID-6 configurations utilize the equivalent of two HDDs for parity

** Not available with Fibre Channel controllers option

*** 12 HDD configurations include one spare HDD for instantaneous rebuild

**** TB = terabytes

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

Built specifically for the small business, the Hitachi Simple Modular Storage is designed with data protection and expansion in mind. Now, SMBs can afford the enterprise-class storage features that the world's largest organizations require to protect and manage their data.

Even better, these features are available in storage that's affordable, reliable and easy to use.

For more information, please visit <http://www.hds.com/products/storage-systems/simple-modular-storage.html>.

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¹ Product/feature not yet available — planned for future release.

² MAC OS is supported with Fibre Channel controllers option, not on iSCSI model.