

Compaq StorageWorks™

High Availability Storage Solution for x86 Servers

The High Availability Storage Solution for x86 servers provides a strong combination of hardware, high availability software, services and application data — all in the context of an acclaimed storage architecture — to offer the most complete high availability solution available today, with high investment protection well into the future.

A complete Fibre Channel storage solution for x86 servers, the High Availability Storage Solution is designed to support *Compaq NonStop™* eBusiness applications like Data Warehousing, Messaging and Collaboration. It includes storage configuration recommendations that provide system administrators with an easy way to estimate the Solution's performance under actual conditions — relieving a major uncertainty around deploying and configuring a new storage technology. Plus, it can be used easily as a starting point to rapidly deploy the Solution in a working environment.

The High Availability Storage Solution for x86 servers is an excellent choice for server consolidation efforts. When applications are consolidated from a number of older servers into a single x86 server, the resulting huge amount of data is best stored on this single, very fast, very highly available storage system. System deployment is further simplified with available data migration services that simplify the movement of data from existing sources to the new *StorageWorks* High Availability Storage Solution.

→ Complete, SAN-ready, Fibre Channel storage system

The High Availability Storage Solution is a modular building block that fits into the Compaq Enterprise Network Storage Architecture (ENSA) and, ultimately, a Compaq Storage Area Network (SAN).

→ Excellent solution for Mail and Messaging applications

The High Availability Storage Solution is characterized with Microsoft Exchange. This data can be used to anticipate and optimize storage performance.

→ Quick, complete installation is available

Compaq's professional Installation services ensure that the Solution is running and ready for use with specified applications before installation is complete.

Installation includes migrating data from existing storage sources to the new

High Availability Storage Solution systems.

→ Continual operation

Business-critical applications require total uptime.

The High Availability Storage Solution supports *Compaq NonStop™* eBusiness and other nonstop applications by delivering a very reliable storage system, combined with host-bus failover and MSCS cluster support to eliminate the application server as a point-of-failure.

→ Investment protection

The High Availability Storage Solution uses standard *Compaq StorageWorks* systems and components, and is compatible with planned future ENSA products.

COMPAQ
NonStop™

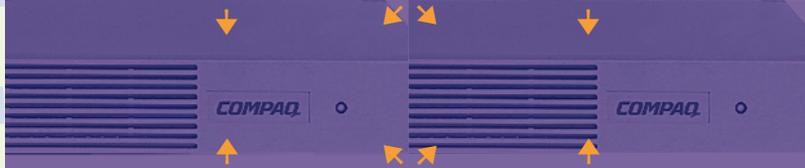
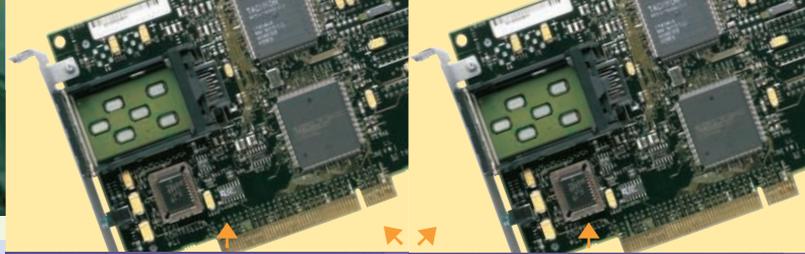
System Support

Operating System:

Windows NT

Servers:

Compaq ProLiant™ and others including Dell, IBM and HP



The High Availability Storage Solution for x86 servers includes:

- ➔ Two independent Fibre Channel loops, each capable of transferring data at 100 MB/second.
- ➔ Four Fibre Channel Host Adapters and two Fibre Channel Storage Hub 7 units, linking the servers to the Fibre Channel loop. If one loop fails, the other loop ensures that all storage system data is available.
- ➔ Two dual controller StorageWorks RAID Array 4100 systems, each holding up to twelve 18 GB disks.
- ➔ One 22U Rack 9000 with 13U available to mount existing ProLiant Microsoft Exchange servers.
- ➔ Configuration and data management software.

High Availability Storage Solution for x86:

2T-21131-01

RAID Array 4100 Rack US

201766-001

High Availability Storage Solution for x86-RA4100

These hardware components are needed to support the High Availability Storage Solution for x86 configuration above:

1	120665-B21	Rack 9000 22U
n ¹	128418-B21	18.2-GB Pluggable Wide-Ultra SCSI-3 10K-II Drive (1.0")
4	120186-B21	Fibre Channel Host Adapter Kit / PCI
2	234453-001	Fibre Channel Storage Hub 7
2	146013-001	StorageWorks RAID Array 4100 system (Rack)
1	136127-B21	Fibre Channel Storage Hub 7 Mounting Kit
2	223187-B21	Redundant Controller 64 MB

¹"n" represents the variable number of 18 GB drives as required by the configuration size. Each RAID Array 4100 system holds up to 12 drives, for a total JBOD capacity of 216 GB. JBOD = "Just a Bunch Of Disks," a multiple disk configuration with no protection against hardware failure. The capacity of a JBOD configuration is simply the sum of the individual drive capacities.

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