

### Overview

#### Models

- Model N900  
230050-001
- Model C900  
258123-001
- Model N900s  
230051-001
- Model C900s  
258124-001

#### Product Highlights

Compaq, the leader in Network Storage, delivers the *StorageWorks™* NAS B3000 by Compaq – the entry-point into NAS/SAN fusion solutions bringing enterprise-level availability, scalability and performance in a turnkey package

- Entry-point to the fusion of NAS and SAN – Universal Network Storage – provides the best utilization of storage investment. Consolidate NAS and SAN into a single, managed storage infrastructure
- Enterprise level scalability – to 27 TB
- Highly available solution – including clustering, RAID ADG, fully integrated software packages, no-single-point-of-failure configurations available
- Turnkey package – configurations include all of the components to provide high performance block- and file-serving

#### Key Benefits

##### Maximized Return on Storage Investment

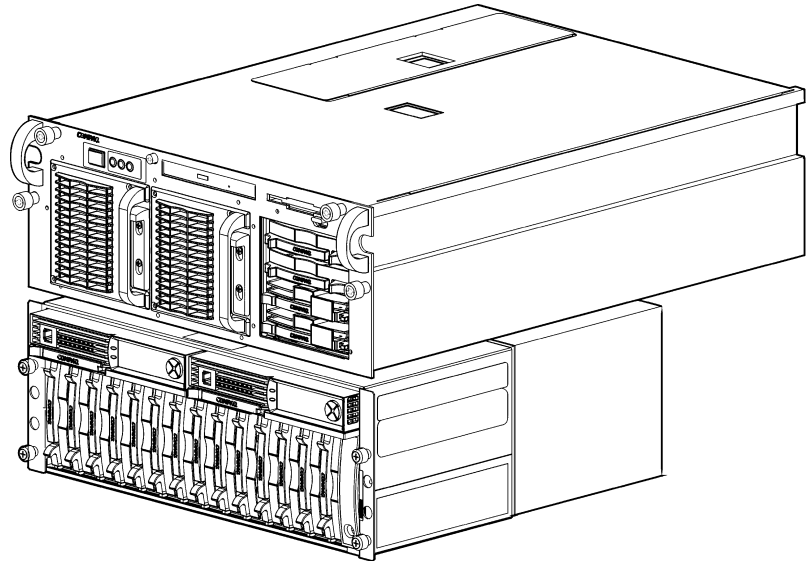
- Multi-protocol file serving – support for Microsoft® Windows® (CIFS), UNIX®/Linux® (NFS), Novell® NetWare® (NCP), Apple (AppleTalk), HTTP and FTP
- Minimize ongoing operational expenses associated with file serving
- Enable clients and applications to easily access data over the existing network, while also reducing the cost of accessing SAN based storage
- Save money and resources with centralized storage and system management

##### Unlimited Scalability

- Grow your storage capacity as your business grows- without downtime and without compromising performance
- Up to 27 TB capacity scalability, higher capacity can be reached with external switches
- The B3000 supports both 1 Gb/sec and 2 Gb/sec Fibre channel fabrics to ensure that your investment in infrastructure is protected.
- DAS to SAN means file data that is currently stored on 1" Universal disk drives using newer Compaq Smart Array controllers, as well as file data on an RA4100 can easily be migrated to the B3000. Simply remove the drives from the older systems and insert them into the B3000. All configuration information and data will be preserved allowing migration to be completed in minutes, not hours or days.

##### Continuous Data Availability

- Ensure that data is always available enabling business continuance through:
  - Cluster Configurations
  - Advanced Data Guarding
  - Hardware redundancy
  - File replication
  - Backup support
  - Antivirus support



### NAS B3000 Base Configurations

<b>NAS B3000</b> <b>Model N900</b>  230050-001	<b>Processor</b>	Two (2) 900-MHz Intel® Pentium® III Xeon™ Processors standard (up to 4 supported)
	<b>Cache Memory</b>	2-MB Level 2 writeback cache per processor
	<b>Memory</b>	2 GB (Standard, 4x 512-MB ECC SDRAM) to 4 GB (Maximum)
	<b>Network Controller</b>	Integrated Compaq NC3134 and NC3135 Fast Ethernet NIC 64 PCI Dual Port 10/100 in a slot (4 total 10/100 ports standard)
	<b>Host Bus Adapter</b>	One (1) FCA2101 Host Adapter
	<b>Storage Controller</b>	Integrated Smart Array Controller (Two channel, one channel for external SCSI backup)
	<b>Hard Drive</b>	Two (2) 36.4-GB Ultra3™ 10K 1" drives for redundant system software
	<b>Power Supply</b>	Two (2) hot pluggable 450 W Power Supplies
	<b>Optical Drive</b>	24x IDE CD-ROM Drive
	<b>External Storage</b>	One (1) MSA1000 with controller and 4 x 72-GB Ultra3 10K 1" drives
<b>Form Factor</b>	Rack 8U	
<b>NAS B3000</b> <b>Model C900</b>  258123-001  <i>The clustered offerings of the StorageWorks NAS B3000 include two (2) server heads &amp; one (1) MSA1000 SAN. The specifications shown are representative of what is included in each individual server head.</i>	<b>Processor</b>	Two (2) Intel Pentium III 900-MHz Xeon Processors standard (up to 4 supported)
	<b>Cache Memory</b>	2MB Level 2 writeback cache per processor
	<b>Memory</b>	2GB (Standard, 4 x 512-MB ECC SDRAM) to 4 GB (Maximum)
	<b>Network Controller</b>	Integrated Compaq NC3134 and NC3135 Fast Ethernet NIC 64 PCI Dual Port 10/100 in a slot (4 total 10/100 ports standard)
	<b>Host Bus Adapter</b>	Two (2) FCA2101 Host Adapters
	<b>Storage Controller</b>	Integrated Smart Array Controller (Two channel, one channel is SCSI only for backup)
	<b>Hard Drive</b>	Two (2) 36.4GB Ultra3 10K 1" for redundant system software
	<b>Power Supply</b>	Two (2) Hot pluggable 450W Power Supplies
	<b>Optical Drive</b>	24x IDE CD-ROM Drive
	<b>External Storage</b>	One (1) MSA1000 with two controllers and 6 x 72-GB Ultra3 10K 1" drives
<b>Form Factor</b>	Rack 12U	

### NAS B3000 Base Configurations

<b>NAS B3000 Model N900s</b>  230051-001	<b>Processor</b>	Two (2) Intel Pentium III 900-MHz Xeon Processors standard (up to 4 supported)
	<b>Cache Memory</b>	2-MB Level 2 writeback cache per processor
	<b>Memory</b>	2 GB (Standard, 4 x 512-MB ECC SDRAM) to 4 GB (Maximum)
	<b>Network Controller</b>	Integrated Compaq NC3134 and NC3135 Fast Ethernet NIC 64 PCI Dual Port 10/100 in a slot (4 total 10/100 ports standard)
	<b>Host Bus Adapter</b>	One (1) FCA2101 Host Adapter
	<b>Storage Controller</b>	Integrated Smart Array Controller (Two channel, one channel is SCSI only for backup)
	<b>Hard Drive</b>	Two (2) 36.4-GB Ultra3 10K 1" for redundant system software
	<b>Power Supply</b>	Two (2) Hot pluggable 450 W Power Supplies
	<b>Optical Drive</b>	24x IDE CD-ROM Drive
	<b>External Storage</b>	One (1) MSA1000 with controller and 4 x 72-GB Ultra3 10K 1" drives
	<b>Embedded Switch</b>	One (1) 6 port embedded 2-Gb switch
	<b>Form Factor</b>	Rack 8U
	<b>NAS B3000 Model C900s</b>  258124-001  <i>The clustered offerings of the StorageWorks NAS B3000 include two (2) server heads &amp; one (1) MSA1000 SAN. The specifications shown are representative of what is included in each individual server head.</i>	<b>Processor</b>
<b>Cache Memory</b>		2MB Level 2 write back cache per processor
<b>Memory</b>		2GB (Standard, 4x 512MB ECC SDRAM) to 4GB (Maximum)
<b>Network Controller</b>		Integrated Compaq NC3134 and NC3135 Fast Ethernet NIC 64 PCI Dual Port 10/100 in a slot (4 total 10/100 ports standard)
<b>Host Bus Adapter</b>		Two (2) FCA2101 Host Adapters
<b>Storage Controller</b>		Integrated Smart Array Controller (Two channel, one channel is SCSI only for backup)
<b>Hard Drive</b>		Two (2) 36.4-GB Ultra3 10K 1" for redundant system software
<b>Internal Storage</b>		Two (2) Hot pluggable 450 W Power Supplies
<b>Power Supply</b>		24x IDE CD-ROM Drive
<b>Optical Drive</b>		Two (2) Intel Pentium III 900-MHz Xeon Processors standard (up to 4 supported)
<b>External Storage</b>		One (1) MSA1000 with two controllers and 6 x 72-GB Ultra3 10K 1" drives
<b>Embedded Switch</b>		Two (2) 6 port embedded 2 Gb switches
<b>Form Factor</b>		Rack 12U

### Standard Features

<b>Processor</b>	<b>Model N900, C900, N900s, C900s</b> Two (2) Intel Pentium III Xeon 900-MHz processors (upgradeable to 4)	
<b>Cache Memory</b>	2-MB level 2 write back cache per processor standard	
<b>Memory</b>	Standard Maximum	2 GB (512 x 4 PC100MHz ECC SDRAM Memory with Advanced ECC functionality) 4 GB <b>NOTE:</b> Advanced ECC Memory Technology protects the data even in the event of an entire SDRAM component failure. Embedded in the chipset design, this feature allows the use of Industry-Standard Registered DIMMs.
<b>Upgradability</b>	Upgradeable to four processors, upgradeable to 4 GB of ECC SDRAM, upgradeable storage capacity	
<b>Network Controller</b>	Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100 in a slot and a Compaq NC3135 Fast Ethernet NIC 64 PCI dual 10/100 daughter card (total 10/100 ports is 4) (Gigabit options available)	
<b>Host Adapters</b>	FCA2101 Host Bus Adapter	
<b>Expansion Slots</b>	I/O (6 Total, 2 Available) Two (2) 64-bit/66-MHz PCI Hot Plug Two (2) 64-bit/33-MHz PCI Hot Plug One (1) 64-bit/33-MHz PCI Non-Hot Plug One (1) 32-bit/33-MHz PCI Non-Hot Plug	1 available 0 available 0 available 1 available PCI Voltage: 3.3 Volt Only 5 Volt or 3.3 Volt 5 Volt or 3.3 Volt 5 Volt Only <b>NOTE:</b> One 64-bit/66-MHz PCI Hot Plug slot available and one 32-bit/33-MHz PCI Non-Hot Plug slot available
<b>Storage Controller</b>	Integrated Smart Array Controller (Two channel) (supports Internal RAID 0, 1, 0+1, 5 and external tape devices)	
<b>Internal Storage</b>	Diskette Drives CD-ROM Hard Drives	1.44 MB 24x IDE CD-ROM Drive (slim line) Two 1" 36.4-GB Ultra3 10K rpm hot plug drives (contain operating system in a RAID 1 configuration)
<b>External Storage</b>	Maximum Internal Storage Minimum External Storage	78.2 GB (2 x 36.4-GB Wide Ultra3 1" drives) MSA1000 (4 (for non-clustered) to 6 (for clustered) x 72-GB drives depending on model)
<b>Interfaces</b>	Parallel Serial  Pointing Device (Mouse) Graphics Hot Plug Keyboard External Wide Ultra2™ SCSI	Not supported 1  1 Available through the "Remote Insight Board" only 1 1 <b>NOTE:</b> You can configure a second serial device to your NAS B3000 server by installing the auxiliary serial connector that ships with the server. The auxiliary connector attaches to a serial port B on the peripheral board and exits the rear of the server through the auxiliary serial knockout located directly above the dual power feeds.

### Standard Features

Graphics	<p>Integrated 1280 x 1024, 16 M colour on PCI local bus, 4-MB video memory</p> <p><b>NOTE:</b> The integrated video card is disabled, video is provided by the Integrated Remote Insight Board</p>
Form Factor	<p>Rack (8U = 14 inches), 4U for the Server component and 4U for the storage enclosure. Ships with sliding rails and cable management arm</p>
Compaq Software	<p><i>SANworks™</i> Virtual Replicator by Compaq <i>SANworks</i> Virtual Replicator combines a rich set of innovative capabilities that enhance and simplify storage management. Customers can pool physical storage and create virtual disks of up to a terabyte each. Virtual disk space can be allocated as needed, allowing customers to respond quickly to changing storage capacity requirements. Through virtualization, online volume growth, snapshot and management features, the software complements the standard capabilities within the operating system. By utilizing industry-standard server, storage, and network-interconnect components, an organization's current and future storage investments are protected.</p> <p><i>SANworks</i> Secure Path Secure Path software is included in the base system image. <i>SANworks</i> Secure Path is a high availability multi-pathing software that provides continuous data access</p> <p>NAS B3000 customers who desire to activate NAS Data Copy after the 30 day trial will need to order the license part number 278546-001</p> <p>NAS Data Copy NAS Data Copy is a host-based data replication package that allows data to be replicated over TCP/IP in either a synchronous or asynchronous mode. One-to-one, one-to-many, many-to-many replication is supported along with failover and fallback capabilities.</p> <p>Rapid Start Compaq designed rapid deployment and configuration tool</p> <p>Compaq <i>Insight Manager™</i> XE Compaq Insight Manager XE leverages the power of the Internet to provide web-based systems management, and plays a key role in Compaq's strategy to simplify IT management. Compaq Insight Manager XE reduces systems management cost, improves operational efficiency and effectiveness, and minimizes systems downtime.</p> <p>Compaq Management Agents The Compaq Management Agents (<a href="http://www.compaq.com/products/servers/management/agents.html">http://www.compaq.com/products/servers/management/agents.html</a>) form the foundation for Compaq's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into Compaq servers, workstations, desktops, and portables, and send alerts to Compaq Insight Manager XE and other management consoles in case of subsystem or environmental failures. For additional information about the Compaq Management Agents and other management product from Compaq, please visit the management Web site at <a href="http://www.compaq.com/manage">http://www.compaq.com/manage</a> <b>NOTE:</b> These Web sites are available in English only.</p> <p>Compaq <i>SmartStart™</i> The server configuration and software integration tool from Compaq. Minimum SmartStart version supported 5.3</p> <p>Array Configuration Utility (ACU) with Smart Array Controllers Same easy to use yet powerful graphical user interface (GUI) configuration utility and easy to navigate wizards for all Smart Array Controllers</p> <p>Array Configuration Utility (ACU- XE) with Smart Array Controllers Compaq Configuration Utility XE (ACU-XE) web-based software for Smart Array products and the <i>StorageWorks</i> RAID Array 4x00 systems allows for ease of configuration and expandability for your disk arrays, remote configuration capabilities, and multi-platform support.</p>
Industry Standard Compliance	<p>ACPI 2.0 Compliant</p> <p>PCI 2.2 Compliant</p> <p>PXE Support (Optional when configured with a PXE-enabled slot-based NIC)</p> <p>WOL Support</p> <p>Physical Address Extension (PAE) Support</p> <p>Microsoft Logo certifications</p>

### Standard Features

---

<b>Intelligent Manageability</b>	Compaq Remote Insight Lights-Out Edition Included Automatic Server Recovery-2 (ASR-2) Compaq Insight Manager Compaq Insight Manager XE Integrated Remote Console (IRC) Integrated Management Log (IML) Off-Line Backup Processor capability Dynamic sector repairing and drive parametre tracking (with Smart Array controllers) Redundant/adaptive load balancing NIC Support
<b>Availability</b>	Advanced Data Guarding PCI Hot Plug with push button functionality Continuous cooling provided by 8 Hot Plug Redundant System Fans Integrated Smart Array Controller for RAID data protection/performance and maximum data bandwidth Advanced Error Checking and Correcting (ECC) Technology <b>NOTE:</b> Advanced ECC Memory Technology protects the data even in the event of an entire SDRAM component failure. Embedded in the chipset design, this feature allows the use of Industry-Standard Registered DIMMs. Hot Plug Ultra2/Ultra3 Drive Bays 2 Redundant Hot Plug Power Supplies Standard Redundant NIC support Pre-Failure Warranty (covers processors, hard drives, and memory)
<b>Serviceability</b>	Internal Diagnostics Display (IDD) numerically indicates specific DIMM or processor failure. LED display on front panel indicates power/interlock, fan, and memory/microprocessor health Spring-loaded memory board release latches prevent unseating incidents PCI Card Guide locks full length PCI cards in place during transit Customer driven interior system fan design (all system fans interior to chassis) Removable, internal centre panel eases access to the power supply and hard drive backplane boards Optional High Voltage PDU cable exits chassis at a right angle to simplify cable management at rear of chassis
<b>Security</b>	Power-on password Hot plug keyboard password Diskette drive control Diskette boot control Network Server Mode Security Provision Parallel and serial interface control Administrator's password Disk configuration lock Hot plug access security
<b>Server Power Supply</b>	450-Watt Hot Plug Power Supply <b>NOTE:</b> Two 450-Watt Hot Plug Power Supplies ship standard with the system
<b>OS Support</b>	Windows Powered OS (OS and all software needed for storage management is pre-configured from the factory) <b>NOTE:</b> For an up-to-date listing of the latest drivers available for the <i>StorageWorks</i> NAS B3000, please see: <a href="http://www.compaq.com/storage/nas/B3000">http://www.compaq.com/storage/nas/B3000</a> . <b>NOTE:</b> This Web site is available in English only.
<b>Service and Support</b>	Compaq Services provides a wide range of service offerings, including a three-year, limited warranty that is fully supported by a worldwide network of resellers and service providers, toll-free 7 x 24 hardware technical phone support and Pre-Failure Warranty coverage of hard drives, memory and processors. <b>NOTE:</b> Certain restrictions and exclusions apply. Consult the Compaq Customer Support Centre.

### B3000 External Storage Components

With the following components, your storage capacity and performance can be scaled to new levels:

#### Modular SAN Array 1000

---

The 4U cabinet houses up to fourteen 1" Compaq Universal hot pluggable Ultra2 and/or Ultra3 drives.

The modular design of the MSA1000 makes it possible to add redundant controllers, redundant single port Fibre Channel I/O Modules or Fabric Switches and storage expansion enclosures.

#### MSA1000 Controller

---

The MSA1000 Controller is an integrated RAID controller with an integrated LCD/LED status display and 128-MB read/write battery-backed cache (expandable to 256 MB per controller). Redundant MSA1000 controllers are an option.

##### Key Features

- Redundant controller support
- Fabric, Private Loop & Public Loop Support
- Auto Negotiated F, FL & L Port Login
- RAID 0, 1, 1+0, 5 and ADG
- 2Gb/1Gb Frequency Agile
- Primary & Secondary Inter-Controller Link (ICL)
- Host based configuration via ACU
- Remote configuration and monitoring via ACU XE (offline and remote) & CIM XE

##### MSA1000 Controller Management Features

- **Selective Storage Presentation:** allows multiple hosts to access a single MSA1000 storage system. Host access can be defined all the way down to a logical volume level.
- **Online RAID Level Migration:** allows for online post-configuration change to RAID level without destroying data or volume information.
- **Online Capacity Expansion:** lets you add storage to an operational MSA1000 — reducing expensive server downtime.
- **Online Volume Extension:** allows for the capacity growth of existing logical volumes.
- **Global Online Spare:** reduces the risk of data loss by facilitating automatic rebuilds after a drive failure.

##### Fault Tolerance

Several fault tolerant configurations, which keep data available and servers running while drives are being replaced, are supported including:

- **Advanced Data Guarding (RAID ADG):** Allocates the equivalence of 2 parity drives across multiple drives and allows simultaneous write operations.
- **Distributed Data Guarding (RAID 5):** Allocates parity data across multiple drives and allows simultaneous write operations.
- **Drive Mirroring (RAID 1, (1+0 Striped Mirroring)):** Allocates half of the drive array to data and the other half to mirrored data, providing two copies of every file.

##### Fault Recovery

Minimizes downtime, reconstructs data, and facilitates a quick recovery from drive failure

- **On-Line Spares:** If a failure occurs, recovery begins with an on-line spare and data is reconstructed automatically. One on-line spare can be assigned per array and used across multiple arrays. It is also possible to assign different on-line spares across different arrays.
- **Array Accelerator:** Onboard, battery-backed cache memory protects data in the event of a power failure. In the unlikely event of a controller failure, the battery-backed cache will save critical user data for up to three days.

#### MSA1000 Fibre Channel I/O Module

---

The Fibre Channel I/O module provides a 2 Gb/s Fibre Channel connection from the host side into the MSA1000. The MSA1000 Fibre Channel I/O Module includes one 2 Gb/s, Short Wave, Small Form Factor Pluggable Transceiver (SFP). A second MSA1000 Fibre Channel I/O Module can be installed for redundancy when a redundant controller is used.

#### MSA Fabric Switch 6

---

The MSA1000 Fabric Switch 6 is a six port, 2 Gb/s Fibre Channel Fabric Switch. The MSA1000 Fabric Switch 6 replaces the standard single port Fibre Channel connection provided by the MSA1000 Fibre Channel I/O Module. There are a total of five external fibre channel ports. Four of the external fibre channel ports are Small Form Factor Fixed (SFF) short wave transceivers and are not removable. The fifth port requires the installation of a Small Form Factor Pluggable (SFP) transceiver. One port is used internally by the MSA1000 controller.

---

## *B3000 External Storage Components*

---

### **MSA Fabric Switch 6 Key Features**

- 2 Gb/s 6 Port Fabric Switch integrated into the MSA1000 Chassis
- 5 ports external, 1 port internal
- 4 Small Form Factor Fixed Short Wave (SFF) Transceivers, 1 Small Form Factor Short Wave Pluggable (SFP) Transceiver with LC connectors
- 2 Gb/1 Gb Frequency Agile
- Managed Out of Band
- Hot Pluggable
- Efficient, space saving design

---

### **2Gb/sec Small Form Factor Pluggable (SFP) SW Transceiver Kit**

2 Gb/s Small Form Factor Pluggable (SFP) SW Transceivers are industry standard connection devices, which hot plug into 2 Gb/s infrastructure components such as 2 Gb/s Fabric Switches. *StorageWorks* 2 Gb/s SFP SW Transceivers support distances up to 300 metres at 2 Gb/s and 500 metres at 1 Gb/s using multi-mode fiber optic cable.

---

### **Multi-Mode Fibre Channel Cables**

Multi-Mode Fibre Channel cables provide a thin, flexible cabling solution that is immune to electromagnetic interference. Compaq offers cables to connect the MSA1000 to both 2 Gb and 1 Gb Fibre Channel infrastructures. LC to LC cables are used when connecting the MSA1000 to other 2 Gb Fibre Channel components because both connections will utilize small form factor transceivers. LC to SC cables are used when connecting the MSA1000 to 1 Gb Fibre Channel components. 1 Gb components use the larger GBIC style transceivers.



### NAS B3000 Options

Processor	Pentium III Xeon X900 2MB Processor Option Kit	222627-B21
	<b>NOTE:</b> This processor option kit (PN 222627-B21) supports the <i>StorageWorks</i> NAS B3000	
	<b>NOTE:</b> The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The Compaq Rack 9000 series (120663-xx1 (42U), 120664-xx1 (36U), 120665-xx1 (22U)) provides enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors. When installing a server with Pentium III Xeon processors running at speeds of 550 MHz or greater in Compaq Rack 7000 series racks (165753-xx1 (42U), and 163747-xx1 (22U)), the new processor technology requires the installation of Compaq's new High Airflow Rack Door Insert (327281-B21 (42U) or 157847-B21 (22U)).	
Memory (DIMMs)	2048 MB PC100 Registered ECC SDRAM Memory Kit (4 x 512 MB)	189082-B21
	<b>NOTE:</b> Memory must be added in sets of four and be the same size.	
Communications	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134 and NC3131	338456-B23
	Compaq NC6133 Gigabit Module 1000 LX Upgrade Module for NC3134 and NC3131	338456-B24
	Compaq NC3135Fast Ethernet Module 100 FX Upgrade Module for NC3134 and NC3131	338456-B25
	Compaq NC6136 Gigabit Server Adapter, 64-bit/66-MHz, PCI, 1000 SX	203539-B21
	Compaq NC7131 Gigabit Server Adapter, 64-bit/66-MHz PCI, 10/100/1000-T	158575-B21
	NC7132 10/100/1000tx Upgrade for NC3134	153453-B21
TCP/Offload NIC	Alacritech 1000 x 1 Single Port Gigabit Server and Storage Accelerator Copper wire	2000-100007*
	Alacritech 1000 x 1 Single Port Gigabit Server and Storage Accelerator Fibre	2000-100009*
	Alacritech 100 x 4 Quad Port Fast Ethernet Server Accelerator	2000-100000*
	<b>NOTE:</b> Additional technical and purchasing information can be obtained at <a href="http://www.alacritech.com/hp">http://www.alacritech.com/hp</a>	
Monitors	Flat Panel TFT7020 Colour Monitor Two-Tone (Carbon/Silver)	253216-001
	Flat Panel TFT5015 Colour Monitor (Opal)	234043-001
	Flat Panel TFT5015 Colour Monitor Two-Tone (Carbon/Silver)	234044-001
	Flat Panel TFT5030 Colour Monitor Two-Tone (Carbon/Silver)	228134-001
	P720 CRT Monitor Two-Tone (Carbon/Silver)	244373-xxx
	V720 CRT Monitor (Opal)	232943-xxx
	V720 CRT Monitor Two-Tone (Carbon/Silver)	232944-xxx
	V570 CRT Monitor (opal)	228114-xxx
	V570 CRT Monitor Two-Tone (Carbon/Silver)	228113-xxx
	S720 CRT Monitor (Opal) (Lite-On)	239286-xxx
	S720 CRT Monitor Two Tone (Carbon/Silver) (Lite-On)	239287-xxx
	S710 Colour Monitor	152991-xxx
	TFT5010R Flat Panel Monitor	217248-001
	TFT 5600- RKM Keyboard/Monitor/Mouse 1U Kit	221546-001

### NAS B3000 Options

Tape Drives		
	<b>External DAT Tape Drives</b>	
	External 20/40-GB DAT DDS-4 Tape Drive	157770-001
	<b>NOTE:</b> Please see the Compaq 20/40-GB DAT Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: <b>English:</b> <a href="http://www.compaq.ca/English/productinfo/storage/tapeoptical/2040DATqs.asp">http://www.compaq.ca/English/productinfo/storage/tapeoptical/2040DATqs.asp</a> <b>French:</b> <a href="http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/dat2040ft.asp">http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/dat2040ft.asp</a>	
	<b>External AIT Tape Drives</b>	
	External AIT 35-GB,LVD Tape Drive	216885-001
	<b>NOTE:</b> Please see the Compaq AIT 35-GB, LVD Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: <b>English:</b> <a href="http://www.compaq.ca/English/productinfo/storage/tapeoptical/ait35qs.asp">http://www.compaq.ca/English/productinfo/storage/tapeoptical/ait35qs.asp</a> <b>French:</b> <a href="http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/ait35f.asp">http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/ait35f.asp</a>	
	External AIT 50-GB Tape Drive	157767-001
	<b>NOTE:</b> Please see the Compaq AIT 50-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: <b>English:</b> <a href="http://www.compaq.ca/English/productinfo/storage/tapeoptical/AIT50GBqs.asp">http://www.compaq.ca/English/productinfo/storage/tapeoptical/AIT50GBqs.asp</a> <b>French:</b> <a href="http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/ait50ft.asp">http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/ait50ft.asp</a>	
	<b>External DLT / SDLT Tape Drives</b>	
	External 20/40-GB DLT Drive (opal)	340744-B22
	<b>NOTE:</b> Please see the Compaq 20/40-GB DLT Drive QuickSpecs for additional options such as data and cleaning cartridges, and for an up-to-date listing of the latest O/S Support details, please see the following: <b>English:</b> <a href="http://www.compaq.ca/English/productinfo/storage/tapeoptical/2040DLTqs.asp">http://www.compaq.ca/English/productinfo/storage/tapeoptical/2040DLTqs.asp</a> <b>French:</b> <a href="http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/DLT2040.asp">http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/DLT2040.asp</a>	
	External 40/80-GB DLT Enhanced Drive	146197-B22
	<b>NOTE:</b> Please see the Compaq 40/80-GB DLT Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: <b>English:</b> <a href="http://www.compaq.ca/English/productinfo/storage/tapeoptical/4080GBDLT.asp">http://www.compaq.ca/English/productinfo/storage/tapeoptical/4080GBDLT.asp</a> <b>French:</b> <a href="http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/DLT4080.asp">http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/DLT4080.asp</a>	
	SDLT 110/220 External	192103-001
	<b>NOTE:</b> Please see the Compaq SDLT 110/220-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following: <b>English:</b> <a href="http://www.compaq.ca/English/productinfo/storage/tapeoptical/SDLT110_220.asp">http://www.compaq.ca/English/productinfo/storage/tapeoptical/SDLT110_220.asp</a> <b>French:</b> <a href="http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/DLT1122.asp">http://www.compaq.ca/Francais/Produits/stockage/unitesoptiques/DLT1122.asp</a>	
	<b>External DAT Autoloader</b>	
	20/40-GB DAT 8 Cassette Autoloader External	166505-001
	<b>NOTE:</b> Please see the Compaq 20/40-GB DAT DDS-4 8 Cassette Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: <a href="http://www.compaq.ca/English/productinfo/storage/tapeoptical/2040dat_cassettee.asp">http://www.compaq.ca/English/productinfo/storage/tapeoptical/2040dat_cassettee.asp</a> <b>NOTE:</b> This Web site is available in English only.	

### NAS B3000 Options

#### Tape Storage Enclosures and Arrays

**NOTE:** Compaq Tape Storage Enclosures and Arrays are compatible with Compaq Internal tape drive options. Please see the QuickSpecs for each Tape Enclosure and Array Model to check for tape drive compatibility. The URL's are provided below.

##### **3U RM Storage Enclosure**

3U RM Storage Enclosure, Model 0	230603-B21
3U RM Storage Enclosure, Model 2 AIT	230604-B21
3U RM Storage Enclosure, Model 2 DLT	230605-B21
3U RM Storage Enclosure, Model 2 SDLT	230606-B21

**NOTE:** Please see the Compaq 3U RM Storage Enclosure QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:

**English:** <http://www.compaq.ca/English/productinfo/storage/nonraidstorage/encl3urm.asp>

**French:** <http://www.compaq.ca/Francais/Produits/stockage/nonRAID/encl3urmf.asp>

##### **DLT Tape Array III**

DLT Tape Array III Model 0	168047-001
DLT Tape Array III Model 40/80-4	161140-001
DLT Tape Array III SDLT-4	229760-001

**NOTE:** Please see the *StorageWorks* DLT Tape Array III QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:

**English:** <http://www.compaq.ca/English/productinfo/storage/tapestorage/dlittapearriii.asp>

**French:** <http://www.compaq.ca/Francais/Produits/stockage/stockagebande/dlittiii.asp>

##### **TA1000 AIT Tape Array**

TA1000 AIT Tape Array, Model 5, Rackmount	195479-001
TA1000 AIT Tape Array, Model 10, Rackmount	175005-001

**NOTE:** Please see the Compaq TA1000 AIT Tape Array QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at: [http://www5.compaq.com/products/quickspecs/10591\\_na/10591\\_na.HTML](http://www5.compaq.com/products/quickspecs/10591_na/10591_na.HTML)

**NOTE:** This Web site is available in English only.

##### **Tape Storage Enclosure Cable Kits**

LVD Cable Kit, VHDCI/HD68	168048-B21
<b>NOTE:</b> For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	
LVD Cable Kit, HD68/HD68	242381-B21
<b>NOTE:</b> For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	

#### Tape Automation

##### **SSL2020 Automated AIT Mini-Library**

SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount	175196-B21
SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount	175196-B22
SSL2020 AIT Library Pass Thru with Transport	175312-B21
SSL2020 AIT Library Pass Thru Extender	175312-B22
AIT 50 GB Drive Add-On LVD Drive for SSL2020 AIT Library	175197-B21

##### **Required Adapters/Controllers for SSL2020 AIT Mini-Library**

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
SAN Access Module for Smart Array 5302 Controller	216687-B21
Smart Array 5302/FC Controller	216688-B21

**NOTE:** Please see the SSL2020 Automated AIT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:

**English:** <http://www.compaq.ca/English/productinfo/storage/tapestorage/SSL2020TL.asp>

**French:** <http://www.compaq.ca/Francais/Produits/stockage/stockagebande/ssl2020tl.asp>

### NAS B3000 Options

#### Tape Automation (continued)

##### ***TL891DLX Automated DLT Tape Library***

TL891DLX DLT Library, 1 drive Rack, LVD	157305-B21
TL891DLX DLT Library, 2 drive Rack, LVD	157305-B22
Add-On 40/80 GB Drive for TL891DLX, LVD	157303-B21
Add-On 40/80 GB Drive for TL8x1HVD	157304-B21

##### ***Required Adapters/Controllers for TL891DLX Automated DLT Tape Library***

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
SAN Access Module for Smart Array 5302 Controller	216687-B21
Smart Array 5302/FC Controller	216688-B21

**NOTE:** Please see the *StorageWorks* TL891DLX Automated DLT Tape Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:

**English:** <http://www.compaq.ca/English/productinfo/storage/tapestorage/tl891qs.asp>

**French:** <http://www.compaq.ca/Francais/Produits/stockage/stockagebande/TL891f.asp>

##### ***MSL5026 Library***

##### ***MSL5026DLX Library***

MSL5026DLX, 1 40/80-GB DLT, LVD Rackmount	231891-B21
MSL5026DLX, 2 40/80-GB DLT, LVD Rackmount	231891-B22

##### ***MSL5026SL Library***

MSL5026SL Library, SDLT 110/220, 1 Drive, LVD, Rackmount	231892-B21
MSL5026SL Library, SDLT 110/220, 2 Drives, LVD, Rackmount	231892-B22
MSL5K Field Upgrade SDLT 110/220 Drive, LVD	231823-B22

##### ***Required Adapters for MSL5026 Library***

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
---	------------

**NOTE:** Please see the *StorageWorks* MSL5026DLX or MSL5026SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:

**English:** <http://www.compaq.ca/English/productinfo/storage/tapestorage/MSL5026SL.asp>

**French:** <http://www.compaq.ca/Francais/Produits/stockage/stockagebande/MSL5026SL.asp>

##### ***TL895 DLT Library***

TL895 (96 slot) library unit, 2 drive	349350-B22
TL895 (96 slot) library unit, 3 drive	349350-B23
TL895 (96 slot) library unit, 4 drive	349350-B24
TL895 (96 slot) library unit, 5 drive	349350-B25
TL895 (96 slot) library unit, 6 drive	349350-B26
TL895 (96 slot) library unit, 7 drive	349350-B27
DLT7000 drive upgrade kit	349351-B21

##### ***Required Adapters for TL895 DLT Library***

<i>StorageWorks</i> Dual Channel Ultra-Wide Differential Library Host Bus Adapter	157299-B21
---	------------

**NOTE:** Please see the TL895 Automated DLT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, *ProLiant™* Connectivity Kits, Host Bus Adapters, SCSI Cable Kits, and Localization Kits and additional options needed for a complete solution at:  
[http://www5.compaq.com/products/quickspecs/10243\\_na/10243\\_na.HTML](http://www5.compaq.com/products/quickspecs/10243_na/10243_na.HTML)

**NOTE:** This Web site is available in English only.

### NAS B3000 Options

#### Tape Automation (continued)

#### **Enterprise 9000 System Library**

##### **ESL9198DLX**

ESL9198 Enterprise Library LVD, 0 Drives	194993-B21
ESL9198DLX Enterprise Library 2 40/80 Drive	194993-B22
ESL9198DLX Enterprise Library 4 40/80 Drive	194993-B24
ESL9198DLX Enterprise Library 8 40/80 Drive	194993-B28
ESL9000 Add-On 40/80-GB DLT Drive, LVD in Hot Plug Canister (ESL9198DLX only)	221248-B21

##### **Required Adapters for ESL9198DLX**

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
---	------------

**NOTE:** 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9198DLX).

**NOTE:** Please see the *StorageWorks* ESL9198DLX Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:

[http://www5.compaq.com/products/quickspecs/10730\\_na/10730\\_na.HTML](http://www5.compaq.com/products/quickspecs/10730_na/10730_na.HTML)

**NOTE:** This Web site is available in English only.

##### **ESL9198SL**

ESL9198 Enterprise Library LVD, 0 Drives	194993-B21
ESL9198SL Enterprise Library, LVD 4 110/220 SDLT Drives	234618-B21
ESL9198SL Enterprise Library, LVD 8 110/220 SDLT Drives	234618-B22
ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL only)	234617-B21

**NOTE:** Please see the *StorageWorks* ESL9198SL Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:

**English:** <http://www.compaq.ca/English/productinfo/storage/tapestorage/ESL9198SL.asp>

**French:** <http://www.compaq.ca/Francais/Produits/stockage/stockagebande/esl9198sl.asp>

##### **ESL9326DX**

ESL9326DX, 0 Drive Unit	146205-B21
ESL9326DX Enterprise Library 6 40/80 Drive	161265-B23
ESL9326DX Enterprise Library 8 40/80 Drive	161265-B24
ESL9326DX Enterprise Library 16 40/80 Drive	161265-B28
ESL9000 Add-On 40/80-GB DLT Drive, HVD in Hot Plug Canister (ESL9326DX only)	161267-B21
ESL9000 Field Upgrade SDLT 110/220, HVD Drive (ESL9326D/DX only)	234617-B22

**NOTE:** Please see the *StorageWorks* ESL9326DX Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:

[http://www5.compaq.com/products/quickspecs/10737\\_na/10737\\_na.HTML](http://www5.compaq.com/products/quickspecs/10737_na/10737_na.HTML)

**NOTE:** This Web site is available in English only.

##### **ESL9326SL**

ESL9326SL Enterprise Library LVD 0 Drives	234488-B21
ESL9326SL Enterprise Library LVD 6 110/220 DSLT Drives	234615-B21
ESL9326SL Enterprise Library LVD 8 110/220 DSLT Drives	234615-B22
ESL9326SL Enterprise Library LVD 16 110/220 DSLT Drives	234615-B26
ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL only)	234617-B21

**NOTE:** Please see the *StorageWorks* ESL9326SL Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:

**English:** <http://www.compaq.ca/English/productinfo/storage/tapestorage/ESL9326SL.asp>

**French:** <http://www.compaq.ca/Francais/Produits/stockage/stockagebande/esl9326sl.asp>

### NAS B3000 Options

<b>StorageWorks Options</b>	Fibre Channel SAN Switch/8 with Fabric Operating Software	158222-B21
	Fibre Channel SAN Switch/16 with Fabric Operating Software	158223-B21
	<i>StorageWorks</i> SAN Switches Integrated/32	230616-B21
	<i>StorageWorks</i> SAN Switches Integrated/64	230617-B21
	<i>StorageWorks</i> Fibre Channel SAN Switches 8-EL	176219-B21
	StorageWorks San Switch 2/16	240602-B21
	<i>StorageWorks</i> Fibre Channel SAN Switches 16-EL	212776-B21
<b>Uninterruptible Power Systems – Rack</b>	Compaq UPS R1500 XR (100 to 127)	204404-001
	Compaq UPS R3000 XR (120V)	192186-001
	Compaq UPS R3000 XR (208V)	192186-002
	Rackmountable UPS R6000 (208V)	347207-001
	R6000 Extended Runtime Module	347224-B21
	<b>NOTE:</b> Available for the UPS R6000 Models only.	
	Extended Runtime Module, R3000 XR	192188-B21
	<b>NOTE:</b> Available for the UPS R3000 XR Models only.	
	Extended Runtime Module, R1500 XR	218971-B21
	<b>NOTE:</b> Available for the UPS R1500 XR Models only.	
	Six-Port Card	192185-B21
	<b>NOTE:</b> Available for the new UPS “XR” Models only.	
	SNMP/Serial Port Card	192189-B21
	<b>NOTE:</b> Available for the new UPS “XR” Models only.	
SNMP-EN Adapter	347225-B21	
High to Low Voltage Transformer (250VA)	388643-B21	
Multi-Server UPS Card	123508-B21	
Scalable UPS Card	123509-B21	
<b>Rackmountable PDUs – 1U / 0U</b>	Compaq Power Distribution Unit-16A (200 to 240V)	207590-B21
	Compaq Power Distribution Unit-24A (200 to 240V)	207590-D72
	Compaq Power Distribution Unit-40A (200 to 240V)	207590-B23
	Compaq Power Distribution Unit-24A (100 to 127V)	207590-D71
	Compaq Dual Input Power Distribution Unit-24A High Voltage	191186-001
	Compaq High Voltage PDU Right Angled Cable Kit (IEC13-IEC14)	142257-004
	<b>NOTE:</b> The 10-Amp AC cord, which ships standard with the Compaq ProLiant DL580, utilizes a right angle plug on the server side (the side that plugs into the server) to avoid interference with the Cable Management Arm. Compaq High Voltage PDUs ship standard with 15-Amp AC cords that incorporate straight plugs on the server side. The optional Compaq High Voltage PDU Right Angled Cable Kit (142257-004) provides a right angle version of the 15-Amp AC cord. When deploying Compaq High Voltage PDUs with the Compaq ProLiant DL580, you may choose to simplify cable management at the rear of the server chassis by installing this option kit.	

### NAS B3000 Options

---

#### CarePaq™ Services

#### Remedial Services

- Compaq Services will also provide remedial services for ongoing maintenance.

#### Software Product Services

- Stand-alone telephone support
- Software Product Subscription

#### Hardware Product Services

- On-site Maintenance (includes warranty support)
- Response time upgrades during the warranty period
- Post-warranty coverage

#### Warranty Upgrade Options

- Response – Upgrade on-site response from next business day to same day 4-hours
- Coverage – Extend hours of coverage from 9 hours x 5 days to 24 hours x 7 days
- Duration – Select duration of coverage for a period of 1year to multi-years

#### B3000 CarePaq Price Band Information

[http://www.compaq.com/services/carepag/us/priority/cp\\_storage.html](http://www.compaq.com/services/carepag/us/priority/cp_storage.html)

**NOTE:** This Web site is available in English only.

Fully customized remedial services are also available. Please contact your Customer Services Department for assistance.

### Storage

#### DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
<b>Removable Media</b>			
1.44MB Diskette Drive	Up to 1	C	Integrated
IDE CD-ROM Drive	Up to 1	B	Integrated IDE
<b>Tape Drives</b>			
Internal AIT 50-GB, Hot Plug Internal AIT 35-GB, LVD, Hot Plug Internal 20/40-GB DAT, Hot Plug	Up to 1	0 & 1 or 2 & 3	Integrated Smart Array Controller Smart Array 5300 Controller 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External AIT 50-GB Tape Drive External AIT 35-GB, LVD Tape Drive	Up to 2	External	Integrated Smart Array Controller Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
DLT Tape Array III	1 to 4	External	Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter
SDLT 110/220-GB, External	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External 40/80-GB DLT Enhanced External 20/40-GB DLT	Up to 3	External	Integrated Smart Array Controller Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
TA1000 AIT Tape Array	Up to 1	External	Compaq Wide-Ultra SCSI-3 Adapter 64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
SSL2020 AIT Mini-Library	2 drives per SCSI channel	External	64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter SAN Access Module for Smart Array 5302 Controller Smart Array 5302/FC Controller
MSL5026DLX (40/80-GB DLT based) and MSL5026SL (SDLT-based) Library	2 drives per SCSI channel	External	64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
TL895 (96 slot) DLT Library (2 - 7 Drives)	2 drives per SCSI channel	External	Compaq Wide-Ultra SCSI Adapter 64-Bit Dual Channel Wide Ultra2 SCSI Adapter
TL891DLX DLT Library	2 drives per SCSI channel	External	64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter SAN Access Module for Smart Array 5302 Controller Smart Array 5302/FC Controller



### Technical Specifications

<b>Server Unit Rack Dimensions</b>	<b>*Dimensions (H x W x D)</b>	6.94 x 19 x 28.3 in/ 17.6 x 48.3 x 71.9 cm	
*Each <i>StorageWorks</i> NAS B3000 consists of a differing amount of Servers and Storage based on model choice. These dimensions represent one (1) server.	<b>Chassis Footprint (H x W x D)</b>	6.94 x 19 x 25 in/17.6 x 48.3 x 63.5 cm	
	<b>Weight</b> No hard drives installed, one power supply	66 lb/29.9 kg	
	<b>Input Requirements</b> (per power supply)	Rated Input Voltage	90 to 120 VAC/200 to 240 VAC
		Rated Input Frequency	50 to 60 Hz
		Input Power	600W @ 110 VAC/600 W @ 220 VAC
		Rated Input Current	7A (90 VAC), 5A (120 VAC), 3A (210 VAC)
	<b>BTU Rating</b>		2291 BTU
	<b>SCSI Connector</b>		One 68-pin connector supporting Wide Ultra2 SCSI
	<b>Power Supply Output Power</b> (per power supply)	Rated Steady-State Power	450W/450W (lowline/highline)
			480W/480W (lowline/highline)
<b>Temperature Range</b>	Operating	50° to 95° F/10° to 35° C	
	Non-operating	-20° to 140° F/-29° to 60° C	
	Shipping	-22° to 122° F/-30° to 50° C	
<b>Relative Humidity</b> (non-condensing)	Operating	20% to 80%	
	Non-operating	5% to 90%	
<b>Maximum Wet Bulb Temperature</b>		101.7° F/38.7° C	
<b>Acoustic Noise</b>		Idle (Fixed Disk Drives Spinning)	

<b>Storage Component Dimensions</b>	<b>*Dimensions (H x W x D)</b>	6.94 x 19.0 x 19.5 in
*Each <i>StorageWorks</i> NAS B3000 consists of a differing amount of Servers and Storage based on model choice. These dimensions represent one (1) MSA1000 Storage Component.	<b>Weight</b>	66 lb/29.9 kg

## Technical Specifications

1.44MB Diskette Drive	Diskette Size	3.5 in	
	LED Indicators (front panel)	Green	
	Read/Write Capacity per Diskette (high/low density)	1.44 MB/720 KB	
	Drive Supported	One	
	Drive Height	One-third	
	Drive Rotation	300 rpm	
	Transfer Rate (high/low)	500/250 Kb/s	
	Bytes/Sector	512	
	Sectors/Track (high/low)	18/9	
	Tracks/Side (high/low)	80/80	
	Access Times	Track-to-Track (high/low)	3/6 ms
		Average (high/low)	94/169 ms
		Settling Time	15 ms
		Latency Average	100 ms
Cylinders (high/low)	80/80		
Read/Write Heads	Two		

Hard Drives	Wide Ultra3 SCSI Hard Drives	1-inch
		72.8-GB 10,000 rpm
		36.4-GB 10,000 rpm
		18.2-GB 10,000 rpm
		36.4-GB 15,000 rpm
		18.2-GB 15,000 rpm

### Technical Specifications

<b>24X Max (or higher) IDE CD-ROM Drive Slim Line</b>	<b>Disk</b>	<b>Applicable Disk</b>	CD-ROM (Mode 1 and 2) CD-DA, CD-XA (Mode 2, Form 1 and 2) Photo CD (Single and Multi-session) Mixed Mode (Audio and Data combined)	
		<b>Capacity</b>	540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm)	
		<b>Diameter</b>	4.7 in, 3.15 in/12 cm, 8 cm	
		<b>Rotational Speed</b>	4200 rpm maximum	
		<b>Centre Hole</b>	0.6 in/15 mm diameter	
		<b>Thickness</b>	1.2 mm	
		<b>Track Pitch</b>	1.6 µm	
		<b>Block Size</b>	Mode 1 Mode 2 CD-DA CD-XA	2,048 2,340, 2,336, 1,024 bytes 2,352 bytes 2,328 bytes
		<b>Interface</b>	IDE (ATAPI)	
		<b>Access Times (typical)</b>	Random Full-Stroke	100 ms 2000 ms
		<b>Audio Output Level</b>	Line-Out Headphone	0.7 VRMS at 47 kOhms 0.6 VRMS at 32 kOhms (maximum volume)
		<b>Data Transfer Rate</b>	Sustained Burst	150 KB/s (single) 2100 to 3600 KB/s
		<b>Cache Buffer</b>	128 KB	
	<b>Start-up Time (typical)</b>	< 7 seconds		
	<b>Stop Time</b>	< 4 seconds		
	<b>Laser Parametres</b>	Type Wave Length Divergence Angle Output Power	Semiconductor Laser GaAlAs 780 ± 25 nm 53.5° ± 1.5° 0.14 mW	
	<b>Operating Conditions</b>	Temperature Humidity	41° to 113° F/5° to 45° C 10% to 80%	
	<b>Dimensions</b>	(H x W x D, maximum) Weight	1.69 x 5.75 x 8.19 in/4.29 x 15 x 20.8 cm 2.66 lb/1.2 kg	

## Technical Specifications

Integrated Smart Array Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	32-bit, 33 MHz (integrated on peripheral board)
	PCI Peak Data Transfer Rate	133 MB/s
	SCSI Protocols Supported	Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	80 MB/s
	<b>NOTE:</b> For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
	Channels	2
	<b>NOTE:</b> For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2. The second channel on the DL580 is for external tape support only.	
	SCSI Ports (external/internal)	1/1
	<b>NOTE:</b> For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2. The DL580 has a SCSI port at the back of the server for external tape support only.	
	Drives Supported (maximum)	Maximum = total number of drives
	<b>NOTE:</b> Maximum is the total number of internal drives on each specific ProLiant server.	
	Cache	8-MB read only
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

### Technical Specifications

Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100	<b>Network Interface</b>	10Base-T/100Base-TX	
	<b>Compatibility</b>	PCI v2.2, IEEE 802.3/802.3u compliant	
	<b>Data Transfer Method</b>	64-bit/66-MHz bus-master PCI	
	<b>Network Transfer Rate</b>	10Base-T (Half-Duplex), 10Base-2	10 Mb/s
		10Base-T (Full-Duplex)	20 Mb/s
		100Base-TX (Half-Duplex)	100 Mb/s
		100Base-TX (Full-Duplex)	200 Mb/s
	<b>Connector</b>	Dual RJ-45	
	<b>I/O Address and Interrupt</b>	Automatic Configuration	
	<b>Cable Support</b>	10Base-T / 100Base-TX	Categories 3, 4 or 5 UTP (2 or 4 pair); up to 328 feet (100 metres)
Category 5 UTP (2 pair); up to 328 feet (100 metres)			

© 2002 Compaq Canada Corporation. All rights reserved. Printed in Canada.

Compaq, the Compaq logo, CarePaq, Compaq Insight Manger, ProLiant, SANworks, SmartStart, and StorageWorks are registered trademarks or trademarks of Compaq Information Technologies Group, L.P. in the U.S. and/or other countries. Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries. Intel, Pentium, Xeon and the Intel Inside Logo are registered trademarks or trademarks of Intel Corporation in the U.S. and/or other countries. Linux is a registered trademark or trademark of Linus Torvalds in the U.S. and/or other countries. UNIX is a registered trademark or trademark of The Open Group in the U.S. and/or other countries. NetWare and Novell are registered trademarks or trademarks of Novell Inc., in the U.S. and/or other countries. All other product names mentioned herein may be trademarks of their respective companies.

Compaq shall not be liable for technical or editorial errors or omissions contained herein. The information is provided "as is" without warranty of any kind and is subject to change without notice. The warranties for Compaq products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty.

## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>