



Sun StorEdge™ PCI/PCI-X Single Ultra320 SCSI Host Bus Adapter Release Notes

Sun Microsystems, Inc.
www.sun.com

Part No. 819-2539-11
January 2006, Revision A

Submit comments about this document at: <http://www.sun.com/hwdocs/feedback>

Copyright 2006 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed at <http://www.sun.com/patents> and one or more additional patents or pending patent applications in the U.S. and in other countries.

This document and the product to which it pertains are distributed under licenses restricting their use, copying, distribution, and decompilation. No part of the product or of this document may be reproduced in any form by any means without prior written authorization of Sun and its licensors, if any.

Third-party software, including font technology, is copyrighted and licensed from Sun suppliers.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and in other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, AnswerBook2, docs.sun.com, Sun StorEdge, Sun Fire, and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and in other countries.

All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and in other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc.

The OPEN LOOK and Sun™ Graphical User Interface was developed by Sun Microsystems, Inc. for its users and licensees. Sun acknowledges the pioneering efforts of Xerox in researching and developing the concept of visual or graphical user interfaces for the computer industry. Sun holds a non-exclusive license from Xerox to the Xerox Graphical User Interface, which license also covers Sun's licensees who implement OPEN LOOK GUIs and otherwise comply with Sun's written license agreements.

U.S. Government Rights—Commercial use. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Copyright 2006 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, Californie 95054, Etats-Unis. Tous droits réservés.

Sun Microsystems, Inc. a les droits de propriété intellectuelle relatants à la technologie qui est décrit dans ce document. En particulier, et sans la limitation, ces droits de propriété intellectuelle peuvent inclure un ou plus des brevets américains énumérés à <http://www.sun.com/patents> et un ou les brevets plus supplémentaires ou les applications de brevet en attente dans les Etats-Unis et dans les autres pays.

Ce produit ou document est protégé par un copyright et distribué avec des licences qui en restreignent l'utilisation, la copie, la distribution, et la décompilation. Aucune partie de ce produit ou document ne peut être reproduite sous aucune forme, par quelque moyen que ce soit, sans l'autorisation préalable et écrite de Sun et de ses bailleurs de licence, s'il y en a.

Le logiciel détenu par des tiers, et qui comprend la technologie relative aux polices de caractères, est protégé par un copyright et licencié par des fournisseurs de Sun.

Des parties de ce produit pourront être dérivées des systèmes Berkeley BSD licenciés par l'Université de Californie. UNIX est une marque déposée aux Etats-Unis et dans d'autres pays et licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, le logo Sun, AnswerBook2, docs.sun.com, Sun StorEdge, Sun Fire, et Solaris sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux Etats-Unis et dans d'autres pays.

Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux Etats-Unis et dans d'autres pays. Les produits portant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

L'interface d'utilisation graphique OPEN LOOK et Sun™ a été développée par Sun Microsystems, Inc. pour ses utilisateurs et licenciés. Sun reconnaît les efforts de pionniers de Xerox pour la recherche et le développement du concept des interfaces d'utilisation visuelle ou graphique pour l'industrie de l'informatique. Sun détient une licence non exclusive de Xerox sur l'interface d'utilisation graphique Xerox, cette licence couvrant également les licenciées de Sun qui mettent en place l'interface d'utilisation graphique OPEN LOOK et qui en outre se conforment aux licences écrites de Sun.

LA DOCUMENTATION EST FOURNIE "EN L'ÉTAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFAÇON.



Sun StorEdge PCI/PCI-X Single Ultra320 SCSI Host Bus Adapter Release Notes

This document contains the latest supplementary information for the Sun StorEdge[™] PCI/PCI-X Single Ultra320 SCSI Host Bus Adapter (HBA). The RoHS compliant part number for this product is SGXPCI1SCSILM320-Z. The non-RoHS part number is SG-XPCI1SCSI-LM320. Read this document so that you are aware of issues or requirements that can impact the installation and operation of the Sun StorEdge PCI/PCI-X Single Ultra320 SCSI HBA.

This document contains the following sections:

- [“Qualified Platforms for Sun Solaris SPARC and Sun Solaris x86 Operating Systems” on page 2](#)
- [“Qualified Platforms for Red Hat Enterprise Linux and SuSE Linux Enterprise Server Operating Systems” on page 3](#)
- [“Qualified Platforms for Windows 2000, Windows Server 2003, and Windows XP Professional Operating Systems” on page 4](#)
- [“Storage Systems Support” on page 5](#)
- [“Service Contact Information” on page 7](#)

Note – Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Sun will not be responsible or liable for any actual or alleged damage or loss caused by or in connection with the use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

Qualified Platforms for Sun Solaris SPARC and Sun Solaris x86 Operating Systems

The following hardware and software are qualified with the Sun Solaris SPARC and Solaris x86 systems.

Host Platform Support

- Sun Fire™ V20z and V40z servers
- Sun Java™ Workstation W1100z and W2100z
- Sun Fire X4100 and X4200 servers
- Sun Fire T2000 server

Minimum Operating System Levels

- Sun Solaris 10 3/05 SPARC with the Solaris 10 recommended patch cluster
- Sun Solaris™ 10 3/05 x86 with the Solaris 10 recommended patch cluster
- Sun Solaris 9 4/04 x86 with the Solaris 9 recommended patch cluster

Qualified Platforms for Red Hat Enterprise Linux and SuSE Linux Enterprise Server Operating Systems

The Linux Drivers required to run this HBA with the Linux OS are available for download at the Sun designated page at:

<http://www.lsil.com/support/sun>

Please consult the Sun hardware platform documentation to verify which Linux releases are supported on each specific platform.

The following hardware and software are qualified with the Red Hat Enterprise Linux (RHEL) 3 and 4 and SuSE Linux Enterprise Server (SLES) 8 and 9 systems.

Host Platform Support

- Sun Fire V20z and V40z servers
- Sun Fire X4100 and X4200 servers
- Sun Java Workstation W1100z and W2100z

Minimum Operating System Levels

- Red Hat Enterprise Linux 3 (x86/IA32 and x64/AMD64)
- Red Hat Enterprise Linux 4 (x86/IA32 and x64/AMD64)
- SuSE Linux Enterprise Server 8 (x86/IA32 and x64/AMD64)
- SuSE Linux Enterprise Server 9 (x86/IA32 and x64/AMD64)

Qualified Platforms for Windows 2000, Windows Server 2003, and Windows XP Professional Operating Systems

The host adapter device driver for Windows 2000, Windows Server 2003 and Windows XP Professional is available for download at the Sun designated web page at:

<http://www.lsil.com/support/sun>

Please consult the Sun hardware platform documentation to verify which Windows releases are supported.

For Windows 2000, the 32bit version of the driver has been verified, the 64bit version has not been verified.

The following hardware and software are qualified with the Windows 2000, Windows Server 2003, and Windows XP Professional Systems.

Host Platform Support

- Sun Fire V20z and V40z servers
- Sun Fire X4100 and X4200 servers
- Sun Java Workstation W1100z and W2100z

Minimum Operating System Levels

- Windows 2000 (x86/IA32 and x64/AMD64)
- Windows Server 2003 (x86/IA32 and x64/AMD64)
- Windows XP Professional (x86/IA32 and x64/AMD64)

Storage Systems Support

The following storage systems are supported for all of the previously listed operating systems.

Disk Storage Systems

- Sun StorEdge 3120 SCSI array (RAID and JBOD)
- Sun StorEdge 3310 SCSI array (RAID)
- Sun StorEdge 3320 SCSI array
- Sun StorEdge S1 Array
- Sun StorEdge D2 Array

Tape Backup Systems

- Sun StorEdge C2 Tape Autoloader
- Sun StorEdge C4 Tape Library
- Sun StorEdge DAT 72 desktop tape drive
- Sun StorEdge L8 Tape Autoloader with Sun StorEdge LTO LVD, LTO 2 (Gen 2) LVD, or SDLT 320 tape drive
- Sun StorEdge L25/L100 Tape Library with Sun StorEdge LTO 1 (Gen 1) LVD, LTO 2 (Gen 2) LVD, LTO 3 (Gen 3) LVD, SDLT 320, or SDLT 600 tape drive
- Sun StorEdge L500 Tape Library with Sun StorEdge LTO (Gen 2) LVD tape drive
- Sun StorEdge LTO 2 (Gen 2) LVD desktop tape drive
- Sun StorEdge LTO 3 (Gen 3) LVD desktop tape drive
- Sun StorEdge SDLT 320 desktop tape drive
- Sun StorEdge SDLT 600 desktop tape drive

Known Limitations



Caution – Upgrading some older disk drive firmware in a Sun StorEdge 3120 SCSI Array connected to a Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter might fail if the older disk firmware does not correctly handle the Ultra320 SCSI protocol. If this happens, create a `/kernel/drv/mpt.conf` configuration file and insert the following line into it. This limits the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter to the Ultra160 SCSI protocol.

```
scsi-options=0x1ff8;
```

Then reboot the system and perform the disk firmware upgrade. After completing the upgrade, remove the inserted line from the `/kernel/drv/mpt.conf` file and reboot the system.



Caution – The Sun StorEdge 3310 SCSI array and S1 array are capable of running only at the Ultra160 SCSI speed. To limit the 3310 SCSI array to the Ultra160 SCSI speed and to support up to 32 LUNS, create a file called `/kernel/drv/mpt.conf` with the following lines in it:

```
device-type-scsi-options-list =  
    "SUN      StorEdge 3310", "SE3310-scsi-options";  
SE3310-scsi-options = 0x41ff8;
```

Then reboot the system.

Bugs

HBA does not recognize LUN numbers greater than seven

4994818

With OpenBoot™ PROM (OBP) commands, the Sun StorEdge PCI/PCI-X Dual Ultra320 SCSI Host Adapter does not recognize any RAID LUN number greater than seven.

Workaround: Do not create a boot volume with a LUN number greater than seven.

BIOS displays only eight LUNs

5053348

If more than eight LUNs are created in an array during system booting, the BIOS only displays eight LUNs (LUN 0 through 7).

Workaround: Do not create a boot volume with a LUN number greater than seven.

Service Contact Information

If you need help installing or using this product in the United States, call 1-800-USA-4SUN, or go to:

<http://www.sun.com/service/contacting/index.html>