



Sun StorEdge™ SBus Dual Fibre Channel Network Adapter Product Notes

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Sun StorEdge SBus Dual Fibre Channel Network Adapter Product Notes

This document contains the latest supplementary information. Use it with the latest version of the *Sun StorEdge SBus Dual Fibre Channel Network Adapter Installation Guide* (part number 816-2489).

This document contains the following sections:

- “System Requirements” on page 3
- “Bugs” on page 9

System Requirements

This section covers the following topics:

- “Qualified Platforms” on page 4
- “Software Component Patches and Packages” on page 4
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Qualified Platforms

The supported host platforms for this product are:

- Sun Enterprise™ E3x00-E6x00 servers
- Sun Enterprise 10000 server

This product supports the following storage systems:

- Sun StorEdge 39x0 series
- Sun StorEdge 69x0 series
- Sun StorEdge 99x0 series
- Sun StorEdge T3 array
- Sun StorEdge T3 array with 1-Gbyte cache
- Sun StorEdge A3500 FC array
- Sun StorEdge A5200 array
- Sun StorEdge FC tape drives 9840A with the Sun StorEdge L180, L700, L5500 and L6000 tape libraries
- Sun StorEdge FC-100 Fibre Channel hub
- Sun StorEdge FC Network Switch (8- and 16-port)

Sun Solaris™ Operating Environments and diagnostic:

- The minimum level is Solaris 8 Update 4 operating environment with the Solaris 8 Recommended Patch Cluster.
- The Solaris 9 operating environment with the Solaris 9 Recommended Patch Cluster is also supported.

Software Component Patches and Packages

Before installing the Sun StorEdge SBus Dual Fibre Channel Network Adapter card, the host must have at the minimum level the Solaris 8 update 4 operating environment with the recommended patch cluster as well as the Sun StorEdge SBus Dual Fibre Channel Network Adapter driver.

Packages

You need the packages listed in TABLE 1.

TABLE 1 Packages

Packages	Location
SUNWsan	http://www.sun.com/storage/san
SUNWcfpl	
SUNWcfplx	

▼ To Download the Packages

- 1. Go to the following web site:**
<http://www.sun.com/storage/san/>
- 2. Select “Sun StorEdge [tm] SAN 4.0 release Software/Firmware Upgrades and Documentation”.**
- 3. Register, if you have not already; otherwise enter your registration information.**
- 4. Click Accept and Continue on the Legal/License Agreement page.**
- 5. Click the link for the packages for your operating environment.**
For the Solaris 8 operating environment, click “Solaris 8 SUNWcfpl/x and SUNWsan packages (Solaris_8_SFK_packages.tar.Z, 47.25.KB)”.
For the Solaris 9 operating environment, click “Solaris 9 SUNWcfpl/x and SUNWsan packages (Solaris_9_SFK_packages.tar.Z, 47.21.KB)”

▼ To Install the Packages

- **Use the `pkgadd` command to install the packages in TABLE 1.**
Follow the installation sequence listed in TABLE 3. You will need to install some of the patches before you install some of the packages.

Patches

TABLE 2 contains a list of the minimum level patches necessary to use the Sun StorEdge SBus Dual Fibre Channel Network Adapter with the Sun StorEdge Traffic Manager software and SAN 4.0 release devices. Check <http://sunsolve.sun.com> for updates.

TABLE 2 Patches

Name	Solaris operating environment 8 Patches	Solaris operating environment 9 Patches
SAN Foundation Kit patch	111847-04	111847-04
Sun StorEdge Traffic Manager (MPxIO) patch	111412-09	113039-01
fctl/fp/fcp/usoc driver	111095-11	113040-02
fcip driver	111096-04	113041-01
qlc driver	111097-10	113042-02
luxadm/liba5k and libg_fc patch	111413-08	113043-01
cfgadm fp plug-in library patch	111846-04	113044-01
SBus Dual Fibre Channel Network Adapter Firmware	112244-02 ¹	112244-02 ²

1 Install patch 112244-02 if the FCode revision is 1.13.06 or lower. See the patch README file for details.

2 Install patch 112244-02 if the FCode revision is 1.13.06 or lower. See the patch README file for details.

▼ To Download the Patches

1. Go to <http://sunsolve.sun.com>.
2. Download patches listed in TABLE 2.
 - a. Click on the links **Patch Finder Patch Analysis Tool -> PatchPro**.
The PatchPro Interactive screen should appear.
 - b. Click on **Network Storage Products**.
 - c. Fill out the fields for **OS Release, Platform, and SAN Products**.
Specify 4.0 in the SAN Products field.

d. Optionally, you can also fill out the fields for Disk Arrays Libraries, Disk Drives, Software, Tape Drives, Switches and HBAs.

If you fill out these fields, you will get more patches than those listed in TABLE 2. You only need the ones in TABLE 2.

e. Click Generate Patch List to generate a list of patches.

Select the desired patches and click Download selected patches.

3. Unzip the patches in the /export/public directory.

▼ To Install the Patches

Install the packages before you install the patches.

● **Use the patchadd command to install the patches in TABLE 2.**

Follow the installation sequence listed in TABLE 3.

Recommended Software Installation Sequence

The software components listed in TABLE 3 are not required, but they are recommended. You must install them in the sequence outlined; but, always follow the installation instructions in the README file contained in each patch or package.

The patches listed below are the minimum patch level. After adding all of the packages and patches to your system, reboot it.

TABLE 3 Software Component Installation Sequence

Step Number	Solaris 8 OE Package or Patch	Solaris 9 OE Package or Patch	Software Component
1	SUNWsan	SUNWsan	Sun StorEdge Network Foundation
2	111847-04 ¹	111847-04 ³	SAN Foundation Kit patch
3	111412-09	113039-01	Sun StorEdge Traffic Manager
4	111095-11	113040-02	fc _p /fp/fctl drivers patch
5	111096-04	113041-01	fc _{ip} driver patch
6	111097-10	113042-02	ql _c driver patch

TABLE 3 Software Component Installation Sequence (Continued)

Step Number	Solaris 8 OE Package or Patch	Solaris 9 OE Package or Patch	Software Component
7	111413-08	113043-01	luxadm and libg_fc/liba5k
8	SUNWcfpl, SUNWcfplx	SUNWcfpl, SUNWcfplx	cfgadm fp port driver specific library
9	111846-04	113044-01	cfgadm fp plug-in library patch
10	112244-02 ²	112244-02 ⁴	SBus Dual Fibre Channel Network Adapter Firmware
optional	108528-15	N/A	kernel patch

1 This patch is bundled with later versions of the SUNWsan package. Use the following command to determine whether you need to add this patch:

```
# showrev -p | grep 111847
```

2 Install patch 112244-02 if the FCode revision is 1.13.06 or lower. See the patch README file for details.

3 This patch is bundled with later versions of the SUNWsan package. Use the following command to determine whether you need to add this patch:

```
# showrev -p | grep 111847
```

4 Install patch 112244-02 if the FCode revision is 1.13.06 or lower. See the patch README file for details.

▼ To Upgrade Adapter Firmware

Use this procedure only if you are installing the Solaris OE patch 112244-xx.

1. Determine the firmware level.

```
# luxadm qlgc_s_download

Opening Device: /devices/sbus@6,0/SUNW,qlc@2,30000/fp@0,0:devctl
Detected FCode Version:      ISP2200 Sbus FC-AL Host Adapter Driver: 1.13.06
10/31/01

Opening Device: /devices/sbus@6,0/SUNW,qlc@2,30400/fp@0,0:devctl
Detected FCode Version:      ISP2200 Sbus FC-AL Host Adapter Driver: 1.13.06
10/31/01

....

Complete
```

If you have a firmware version earlier than 1.13.07, you will need to upgrade it.

2. Upgrade the Sun StorEdge SBus Dual Fibre Channel Network Adapter firmware.

a. Get firmware patch 112244-02 from <http://sunsolve.sun.com>

b. Follow the instructions in the patch README file.

3. Reboot your system.

Newly updated firmware will not be displayed with the luxadm (1M) command until you reboot your system.

Bugs

- **Bug 4529423:** Error Message while the system is configured with CD0 setting.

Work around:

Ignore the following message when using CD0:

```
Could not open device: :Error: No such file or directory
```

