



QLogic SANbox 9000 Series Stackable Chassis Switch Hardware Release Notes

For Installation in Sun™ Storage Area Networks

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QLogic SANbox 9000 Series Stackable Chassis Switch Hardware Release Notes

This document contains important information about the QLogic SANbox 9000 Series Stackable Chassis switch hardware installed in Sun storage area networks (SANs).

Read this document so that you are aware of issues or requirements that can impact the installation and operation of the SANbox 9000 in a Sun SAN.

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This document contains the following sections:

- [“Product Features” on page 2](#)
- [“Supported Hardware and Software” on page 2](#)
- [“Switch Requirements” on page 6](#)
- [“Downloading and Installing Patches” on page 7](#)
- [“Related Documentation” on page 8](#)
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Product Features

The QLogic SANbox 9000 Series switch has the following features:

- Sixteen 1, 2, or 4-Gbit ports scalable to 128 ports
- Four 10-Gbit ISL ports
- Optional hyperstack - Four 200-Gbit dedicated backplane interconnects between chassis modules (requires license)
- For ultra-high availability of 99.999%, an optional fault tolerant transparent CPU failover software license key feature is available

Supported Hardware and Software

This section details the hardware and software that are supported by the SANbox 9000 in a Sun SAN. The following topics are discussed:

- [“Supported Switches” on page 2](#)
- [“Supported Storage Platforms” on page 3](#)
- [“Supported HBAs” on page 3](#)
- [“Supported Server Platforms” on page 4](#)
- [“Operating System Requirements” on page 5](#)
- [“Management Software Requirements” on page 5](#)

Supported Switches

The following QLogic switches are compatible with the SANbox 9000:

- SANbox 5200
- SANbox 5600
- SANbox 5602
- SANbox2-8
- SANbox2-16
- SANbox2-64

Note – SANbox2 is supported only if running minimum firmware version 5.0.1.10.

Supported Storage Platforms

The following storage platforms are compatible with the SANbox 9000:

- Sun StorEdge™ 3510 and 3511 arrays
- Sun StorEdge 6120 and 6130 arrays
- Sun StorEdge 6320 system
- Sun StorEdge T3B array with full fabric
- Sun StorageTek™ 6140 and 6540 arrays
- Sun StorageTek FlexLine™ 380 array
- Sun StorEdge 9840B, 9840C, 9940B, T10000, LTO-2, LTO-3, and SDLT 600 FC tape drives
- Sun StorEdge FC420 FC-SCSI Bridge for L25 and L100 tape libraries with the SG-XFCCARD2-C LVD SCSI to Fibre Channel Card Quantum or the SG-XFC420CARD-MOD Fibre Channel / LVD Internal Bridge
- FC Robots: L180, L700, L500
- C4 tape library with the SG-XFCCARD2-C LVD SCSI to Fibre Channel Card Quantum

Supported HBAs

The following HBAs are compatible with the SANbox 9000:

- SG-XPCI2FC-QF2
- SG-XPCI2FC-QF2-Z
- SG-XPCI1FC-QL2
- SG-XPCI1FC-QLC
- SG-XPCI1FC-QLC-Z
- SG-XPCI1FC-EM2
- SG-XPCI2FC-EM2
- SG-XPCI1FC-QF4
- SG-XPCI2FC-QF4
- SG-XPCIE1FC-QF4
- SG-XPCIE2FC-QF4

- SG-XPCI1FC-EM4-Z
- SG-XPCI2FC-EM4-Z
- SG-XPCIE1FC-EM4
- SG-XPCIE2FC-EM4
- SG-XPCIE2FC-QB4-Z
- SG-PCIE20FC-NEM-Z
- SG-PCIE2FC-EB4-Z

Supported Server Platforms

The following server platforms are compatible with the SANbox 9000:

x64/x86 Systems

- Sun Fire™ V40z
- Sun Fire x2100 (M2), x2200 M2, x4100 (M2), x4200 (M2), and x4600 (M2)
- Sun Blade™ 8000 Modular System

Work Group Servers

- Sun Fire T1000/T2000
- Sun Fire V1280/Netra 1280
- Sun Fire V240/Netra 240
- Sun Fire V210/V240/V250
- Sun Fire V215/245
- Sun Fire V440
- Sun Fire V445
- Sun Fire V480/490
- Sun Fire V880/890
- Sun Fire 4800/4810/6800
- Sun Fire 2900
- Sun Fire 12k/15k/20k/25k
- Sun Blade 1500/2500
- Sun Blade 2500+
- Sun Enterprise™ 4900/6900

Operating System Requirements

The following operating systems are compatible with the SANbox 9000:

Solaris

- Solaris 8 U4 or higher for SPARC
- Solaris 9 U1 or higher for SPARC
- Solaris 10 SPARC & x64

Linux

- Red Hat Enterprise Linux 4.0 (IA32/AMD64)
- SuSE Linux Enterprise Server 9 (IA32/AMD64)
- SuSE Linux Enterprise Server 10 (IA32/AMD64)

Microsoft Windows

- Windows 2000 Server (IA32)
- Windows 2003 Server (IA32/AMD64)

Other

- HP/UX 11.0, 11
- IBM AIX 5.3

Management Software Requirements

The SANbox 9000 can be managed by Enterprise Fabric Suite (EFS), Quicktools, or CLI.

If using EFS, see the section [“EFS Requirements” on page 6](#) to determine the correct EFS version to use with your installed firmware version. EFS downloading instructions can be found in the section [“Downloading EFS” on page 6](#).

EFS Requirements

TABLE 1 summarizes the EFS and firmware version compatibility requirements for the SANbox 9000. See the section “[Downloading EFS](#)” on page 6 for the EFS software downloading procedure.

TABLE 1 EFS and Firmware Version Compatibility

Firmware Version	Firmware Patch ID	EFS Version
6.2.1.01	124900-01	6.03.04
6.6.0.15	124900-02	6.07.05 (minimum)

▼ Downloading EFS

1. Access the following QLogic web site:

<http://lk.qlogic.com/productfeatureautomation/Home.aspx?id=m13>

2. Under the Download section, click Enterprise Fabric Suite 2007 - Download Center.
3. Type the CD serial number and click Continue.
4. Read and accept the license agreement.
5. Download the software.

Switch Requirements

This section describes some special requirements for the SANbox 9000.

Rackmounted SANbox Switch

When mounting the SANbox 9000 in an equipment rack, use the rail kit and mounting hardware supplied with the switch. For rack mounting procedures, refer to the rack mounting instructions packaged with the switch.

Firmware Requirements

The SANbox 9000 requires a minimum firmware version of 6.2.1.01. The patch ID for this firmware is 124900-01. However, if it is desired to utilize the fault tolerant and hyperstacking features, firmware version 6.6.0.15 is required. The patch ID for this firmware is 124900-02.

See the section [“Downloading and Installing Patches” on page 7](#) for further information regarding the installation of patches.

Installing the Switch Into an Existing Fabric

If you are installing a SANbox 9000 in an existing fabric, upgrade QLogic switches to the minimum firmware version 5.0.1.10. The patch ID for this firmware is 119553.

Note – If the existing fabric contains any SANbox 5000-series switches, it is recommended to install firmware version 6.7.0.07. The patch ID for this firmware is 128175.

See the section [“Downloading and Installing Patches” on page 7](#) for further information regarding the installation of patches.

Downloading and Installing Patches

The section that follows provides instructions for downloading and installing patches for the QLogic SANbox 9000, as well as other QLogic switches. See the sections [“Firmware Requirements” on page 7](#) and [“Installing the Switch Into an Existing Fabric” on page 7](#) for the required or recommended firmware versions and associated patch IDs.

▼ Downloading Patches

1. Access the SunSolveSM web site at:
<http://sunsolve.sun.com>
2. Read and accept the terms and conditions of the License Agreement.
3. From the Support category, select Patches and Updates.

4. Under PatchFinder, type the patch ID and click Find Patch.

Do not type the -xx revision number. PatchFinder automatically finds the latest patch.

5. Verify that you have retrieved the correct patch.

6. Print the page.

Printing this page also prints the patch README file, which contains the installation instructions, special instructions, special guidelines, and notes.

7. Download the patch by clicking on either HTTP or FTP as shown in the following line:

Download Patch (*nn,nnn,nnn* bytes) HTTP FTP.

8. Click PatchFinder and repeat the process from Step 4 for each patch.

Patch Installation

When you are finished downloading all the patches, install the patches by following the instructions in each patch README file.

Related Documentation

For other important information regarding the SANbox 9000, go to:

<http://www.qlogic.com/support/sunresource.asp>

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>