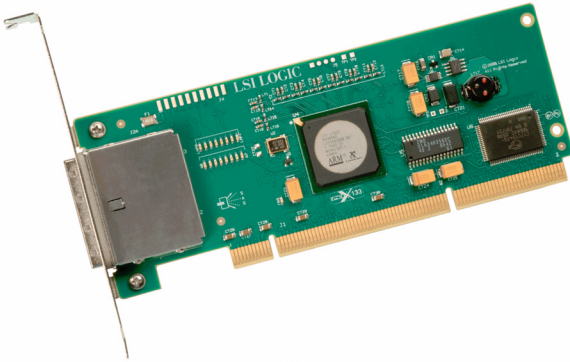


LSISAS3801X PCI-X to 3.0 Gbit/s Serial Attached SCSI (SAS) Host Adapter

Quick Installation Guide

LSI LOGIC®



Thank you for purchasing the LSISAS3801X PCI-X to 3.0 Gbit/s Serial Attached SCSI (SAS) host adapter. Please take a few minutes to read this *Quick Installation Guide* before you install the LSISAS3801X.

If you need more information about any topic covered in this guide, please refer to the other documents on the accompanying LSI Serial Attached SCSI Device Drivers and Utilities CD.

CONTENTS OF LSI SERIAL ATTACHED SCSI DEVICE DRIVERS AND UTILITIES CD

The LSI host adapter CD contains utility programs, device drivers for various operating systems, and the following LSI documentation:

- *Serial Attached SCSI (SAS) to PCI-X Host Adapters User's Guide*
- *Fusion-MPT™ Device Management User's Guide*
- Host adapter technical product briefs

QUICK HOST ADAPTER INSTALLATION

To install the LSISAS3801X host adapter, follow these steps:

Step 1 Unpack the host adapter and inspect it for damage.

Unpack the host adapter in a static-free environment. Remove the host adapter from the antistatic bag and inspect it for damage. If it appears to be damaged, or if any component is missing, contact LSI or your reseller support representative.



CAUTION

Make a backup of your data before changing your system configuration.

Step 2 Prepare the computer.

Turn off the computer and remove the power cord from the back of the power supply. Remove the cover from the chassis.



CAUTION

Be certain to disconnect the computer from the power supply and from any networks before installing the controller card.

Step 3

Insert the LSISAS3801X in an available PCI/PCI-X slot.

Locate an empty PCI/PCI-X slot. Remove the blank bracket panel on the back of the computer that is aligned with the PCI/PCI-X slot you have selected. Save the bracket screw when present.

Align the host adapter with a PCI/PCI-X slot. Press down gently but firmly to properly seat the host adapter in the slot. The following figure illustrates how to insert the host adapter in a PCI/PCI-X slot.

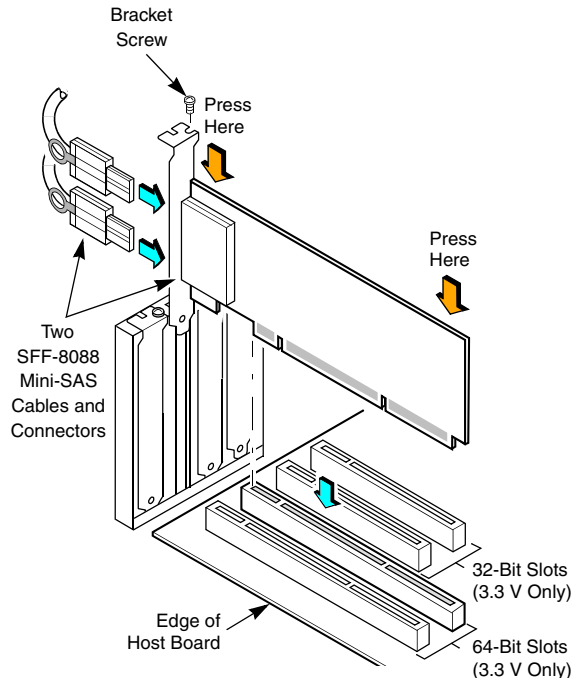
Note:

The LSISAS3801X is keyed for a 3.3 V slot. The keying of edge connector J1 prevents the card from being installed in a 5 V slot.

Step 4

Secure the bracket to the system chassis.

Install the bracket screw, when present, or engage the system's retention mechanism to secure the host adapter to the system's chassis.



Note:

The host adapter shape, size, and locations of components may vary from this illustration.



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Step 5 **Connect the serial cable(s) between the host adapter and the serial hard disk drive(s) (HDD).**

The LSI3801X has two external SAS signal connectors, each connecting to four 3 Gbit/s SAS ports. The host adapter needs to be connected to external SAS storage devices using the appropriate cable. Two SAS external cables with the standard SAS external plug connector (SFF-8088) are required to connect to external devices.

Step 6 **Replace the cover, the power cord(s) and power-up the system.**

Replace the system's cover, reconnect the power cord(s) and any network cables. Turn on power to the system.

The LSI3801X host adapter hardware installation is complete, and you are ready to install the operating system drivers.

WINDOWS DRIVER INSTALLATION

To load the SYMMPTI.SYS miniport driver during a new Microsoft Windows 2000 or Windows XP system installation or to load the LSI_SAS.SYS driver during a new Windows 2003 installation, you can boot directly from the Microsoft installation CD-ROM. The Windows drivers are not interchangeable; however, the instructions are similar.

To install a new Windows operating system and its appropriate device driver, follow these steps:

Step 1 Using another computer, copy the appropriate driver files supplied on the LSI Serial Attached SCSI Device Drivers and Utilities CD onto a diskette. This will be needed in [step 6](#).

To create the driver diskette, open the driver folder on the CD, then open the folder for the version of Windows to be installed on the new system. Next, select all folders and files within the directory and copy to the root directory of a clean floppy diskette.

Step 2 Boot the computer from the Windows CD-ROM.

Step 3 Shortly after Windows Setup begins, press F6 when the words Setup is inspecting your computer's hardware configuration appear, or when prompted to press F6 if you need to install a third-party SCSI or RAID driver.

Important. You must press F6 for the new driver to be recognized. Otherwise, the system does not recognize the devices controlled by the driver during the Windows setup.

Step 4 Follow the instructions until a screen displaying the words Setup could not determine the type of one or more mass storage device... appears.

Step 5 Press S to Specify Additional Devices.

Step 6 Follow the prompts and insert the Windows driver diskette when prompted to insert the hardware support disk. Select the driver version appropriate for your system.

Step 7 Follow the Windows installation procedure to complete the installation. Microsoft provides documentation with its installation CD-ROM.

Note: Refer to the *Fusion-MPT Device Management User's Guide* for detailed configuration and installation instructions for all firmware and drivers.

LINUX DRIVER INSTALLATION

Consult the Linux ReadMe.txt file on the LSI Serial Attached SCSI Device Drivers and Utilities CD. LSI provides open source drivers that may be implemented in the following ways:

- Adding recompiled binaries to an existing installation using driver update disks or RPMs for selected distributions.
- Adding or updating the Fusion-MPT source in the Linux kernel for any distribution.

TECHNICAL SUPPORT

For assistance installing, configuring, or running the LSI3801X, contact LSI Technical Support:

Phone Support

1-800-633-4545 (North America)

+44 1344 413 441 (Europe)

Web Site

<http://www.lsi.com/support/>



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Find a list of LSI Logic Corporation's U.S. distributors, international distributors, sales offices, and design resource centers on the LSI web site at:

<http://www.lsi.com/contacts/index.html>

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