LSI Logic LSI7102XP-LC Host Bus Adapter

Thank you for purchasing the LSI7102XP-LC Fibre Channel to PCI-X Host Bus Adapter (HBA). Please take a few minutes to read this *Quick Hardware Setup Guide* before you install the LSI7102XP-LC. If you need more information about any topic covered in this guide, please refer to the other documents on the accompanying LSI Logic HBA compact disk (CD).

Contents of the LSI Logic HBA CD

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

- *LSI Logic Fibre Channel to PCI-X Host Adapters User's Guide*
- *LSI Logic Fusion-MPT™ Device Management User's Guide*
- LSI Logic HBA technical product briefs

Technical Support

For assistance installing, configuring, or running the LSI7102XP-LC, contact LSI Logic Technical Support:

Phone Support: 1-800-633-4545
Web Site: http://www.lsilogic.com/support/index.html

HBA Installation

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

These steps install the LSI7102XP-LC. The following text provides an explanation of each step.

Step	Action
1	Unpack the LSI7102XP-LC.
2	Prepare the computer.
3	Install the LSI7102XP-LC in a PCI or PCI-X slot.
4	Re-assemble the computer.
5	Connect the Fibre Channel cables to the LSI7102XP-LC.
6	Power up the computer.
7	Ensure that the HBA is installed properly.
8	Install the operating system device driver.

Step 1: Unpack the HBA

Unpack the LSI7102XP-LC in a static-free environment. Remove the LSI7102XP-LC from the antistatic bag and inspect it for damage. If it appears to be damaged, or if any component is missing, contact LSI Logic or your reseller support representative.
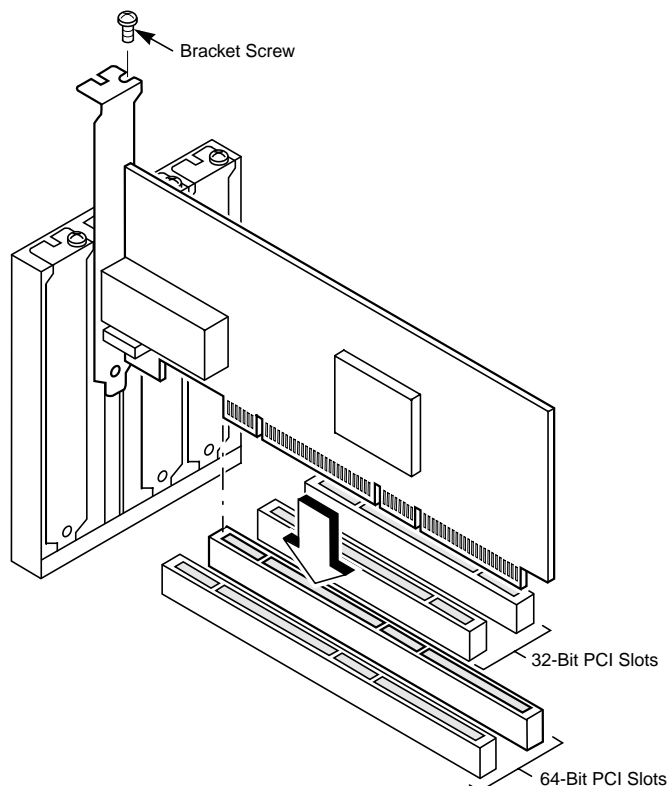
Step 2: Prepare the Computer

Turn off the computer and remove the power cord from the back of the power supply. Remove the cover from the chassis. *Be certain to disconnect the computer from the power supply and from any networks before installing the controller card.*

Step 3: Install the LSI7102XP-LC

Install the LSI7102XP-LC in a 3.3 V or 5 V PCI slot, as shown in Figure 1. Press down gently, but firmly, to seat the controller card properly in the slot. The bottom edge of the card must be flush with the slot. Then attach the LSI7102XP-LC to the computer chassis with the bracket screw. The *Fibre Channel to PCI-X Host Adapters User's Guide* provides detailed instructions for installing and configuring the LSI7102XP-LC.

Figure 1   Inserting the HBA Board
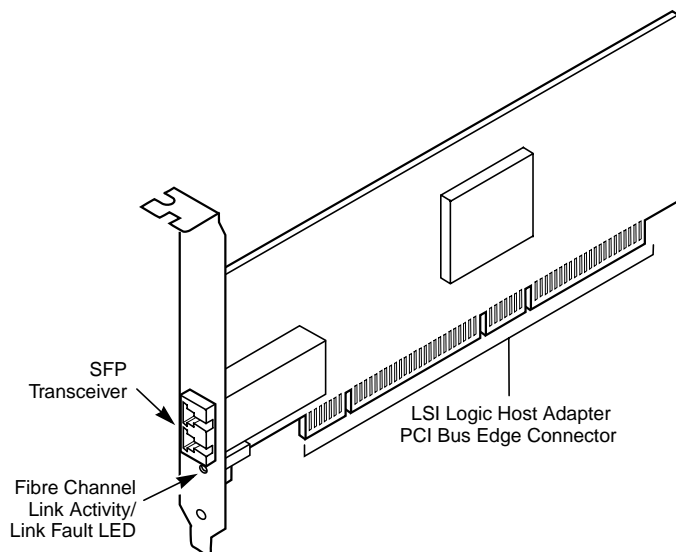

Step 4: Re-assemble the Computer

Replace the computer cover and connect the power cords.

Step 5: Connect the Fibre Channel Cables to the LSI7102XP-LC

Connect the Fibre Channel cables to the Small Form-factor Pluggable (SFP) transceivers on the LSI7102XP-LC (Figure 2).

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Figure 2   LSI7102XP-LC Fibre Channel Cable Connections

SFP Transceiver

Fibre Channel Link Activity/ Link Fault LED

LSI Logic Host Adapter PCI Bus Edge Connector

Step 6: Power Up the Computer

Turn on power to all the devices. Be sure the Fibre Channel devices power up before or at the same time as the computer. Otherwise, the computer might not recognize the Fibre Channel devices.

Step 7: Ensure that the HBA is Installed Properly

After restoring power to the system, check the Fibre Channel Link Activity/Link Fault LED (Figure 2). If it is OFF, then the HBA is seated properly.

Step 8: Install the Operating System Device Driver

LSI Logic provides device drivers for the following operating systems:

- Microsoft Windows NT 4.0, Windows 2000, Windows XP, and Windows Server 2003
- RedHat 7.0, 7.1, 7.2, 8.0 (32-bit & 64-bit), 7.3, and ASE 2.1
- SuSE 7.2, 7.3, and 8.x (32-bit & 64-bit)
- Caldera 3.1 and 3.1.1
- Solaris x86
- Solaris SPARC

The CD contains README files that provide detailed installation notes for each supported OS.

Default Configuration

After the HBA is installed and the computer powered on, the LSI7102XP-LC automatically scans for connected devices and configures itself appropriately.

The HBA has the following default configuration:

Feature	Default State	Description
Link Configuration	Auto	In this mode, the HBA automatically adjusts to the appropriate link speed (1 Gbit/s or 2 Gbit/s).
Topology Configuration	Auto	The *Auto* setting checks for switch or disk (direct attach or loop) and automatically sets the configuration.
MultiPathing	No	This setting hides multiple paths on the same topology and determines whether a target with two FC ports is reported once or twice. If Multi-Pathing is disabled, the HBA reports only one port, even if the target has two FC ports connected on the same topology. If MultiPathing is enabled, the HBA reports both ports.

You may change any of the above factory default settings using the LSI Logic BIOS Configuration Utility. This utility is stored in EEPROM on your HBA and requires no CD or floppy disk. To run the utility, reboot the computer and simultaneously press both the 'Ctrl' and the 'C' keys when the LSI Logic banner is displayed. The utility includes help screens for each configurable option, as well as a "restore factory defaults" option. The adapter stores the changes, so they only need to be entered once.

For more detailed information regarding these features, refer to the *Fusion-MPT Device Management User's Guide*.