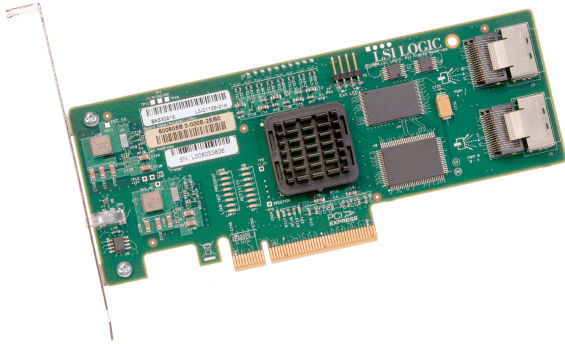


# LSISAS3081E-R PCI Express to 3.0 Gbit/s Serial Attached SCSI (SAS) Host Adapter

## Quick Installation Guide



Thank you for purchasing the LSISAS3081E-R PCI Express to 3.0 Gbit/s Serial Attached SCSI (SAS) Host Bus Adapter (HBA). Please take a few minutes to read this quick installation guide before you install the LSISAS3081E-R.

If you need more information about any topic covered in this guide, refer to the other documents on the accompanying LSI Logic Device Drivers & Utilities CD.

### CONTENTS OF THE LSI LOGIC DEVICE DRIVERS & UTILITIES CD

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

- *PCI Express to 3.0 Gbit Serial Attached SCSI (SAS) Host Adapters User's Guide*
- *Fusion-MPT™ Device Management User's Guide*
- LSI HBA technical product briefs

### QUICK HBA INSTALLATION

To install the LSISAS3081E-R, follow these steps:

- Step 1**   Unpack the HBA and inspect it for damage.
- Unpack the HBA in a static-free environment. Remove the HBA 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.



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

- Step 3**   Insert the LSISAS3081E-R in an available PCI Express slot.

Locate an empty PCI Express slot. Remove the blank bracket panel on the back of the computer that is aligned with the PCI Express slot you have selected. Save the bracket screw when present. Align the HBA to a PCI Express slot. Press down gently but firmly to properly seat the HBA in the slot. The following figure illustrates how to insert the HBA in a PCI Express slot.

- Step 4**   Secure the bracket to the system's chassis.

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

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

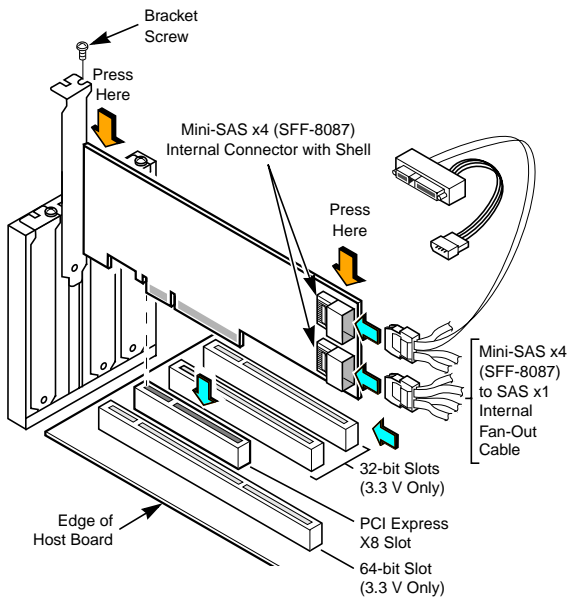
The LSISAS3081E-R has two internal X4 mini-SAS connectors, each connecting to four 3 Gbit/s SAS ports. The HBA must be connected to SAS or SATA storage devices using the appropriate cable.

For connection to internal drives or backplanes, an internal cable with a standard mini-SAS connector (SFF-8087) on the controller side of the cable is required. The other end of the cable may fan out into four SAS-style cables for direct connection to SAS or SATA disk drives. The figure on the next page illustrates the connector locations on the LSISAS3081E-R and the use of a controller-based, fan-out cable to connect to drives that require a SAS-style signal connector.

- 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 power on.





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

The LSI SAS3081E-R hardware installation is complete and you are ready to install the operating system drivers.

## WINDOWS DRIVER INSTALLATION

To load the `SYMPPI.SYS` miniport driver during a new Windows 2000 or Windows XP system installation or to load the `LSI_SAS.SYS` driver during a new Windows 2003 system 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 Logic Device Drivers & Utilities CD onto a diskette. This diskette is needed in Step 6. To create the driver diskette, open the driver folder on the CD, and then open the folder for the version of the Windows operating system to be installed on the new system. Next, select all folders and files within the directory and copy them to the root directory of a clean floppy diskette.

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

**Step 3** Press F6 when the words Setup is inspecting your computer's hardware configuration appear, or when the Windows operating system prompts you for nonsupported drivers.

**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** Choose S to specify additional devices.

**Step 6** Follow the prompts and insert the Windows driver diskette when you are 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 Device Drivers & Utilities CD. LSI provides Open Source Drivers that may be implemented in the following ways:

- Adding precompiled 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 LSI SAS3081E-R, contact LSI Technical Support:

**E-mail:** [support@lsi.com](mailto:support@lsi.com)

**Phone:** 1-800-633-4545 (North America)  
+44.1344.413.115 (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 Logic web site at:

<http://www.lsi.com>

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