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# Quick Installation Guide
## LSI® SAS 9200-8e PCI Express® to 6Gb/s SAS Host Bus Adapter

**Thank you for purchasing the LSI SAS 9200-8e Host Bus Adapter (HBA). Please take a few minutes to read this quick installation guide before you install the HBA.**

**For more information about any topic covered in this guide, refer to the documents listed with your product at the following link:**

**http://go.lsi.com/hbas**

After navigating to your product, select **Software Downloads** to locate necessary device drivers.

**ATTENTION:** Perform all installation work at an electrostatic discharge (ESD)-safe workstation that meets the requirements of EIA-625. *Requirements for Handling Electrostatic Discharge Sensitive Devices*. You must perform all actions in accordance to the latest revision of the IPC-A-610 ESD-recommended practices.

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To install the LSI® SAS 9200-8e HBA, follow these steps:

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 carefully inspect the device for damage. If you notice any damage, contact LSI or your reseller support representative.

**ATTENTION:** To avoid the risk of data loss, make a backup of your data before changing your system configuration.

2. **Prepare the computer.** Turn off the computer, and remove the power cord from the rear of the power supply.

**CAUTION:** Disconnect the computer from the power supply and from any networks to which you will install the HBA, or you risk damaging the system or experiencing electrical shock.

3. **Remove the cover from the chassis.**

4. **Check the mounting bracket on the HBA (system dependent).** If required for your system, replace the full-height mounting bracket that ships on the HBA with the low-profile bracket supplied. Complete step a through step d to attach the short bracket.

   a. Using a #1 Phillips screwdriver that is ESD safe, remove the two Phillips screws that connect the full-profile bracket to the board. Unscrew the two screws located at the top and bottom edges of the board. Avoid touching any other board components with the screwdriver or bracket.

**CAUTION:** Damaging the screw can void the warranty. To prevent damage to the screw, center the screwdriver in the top of the screw.
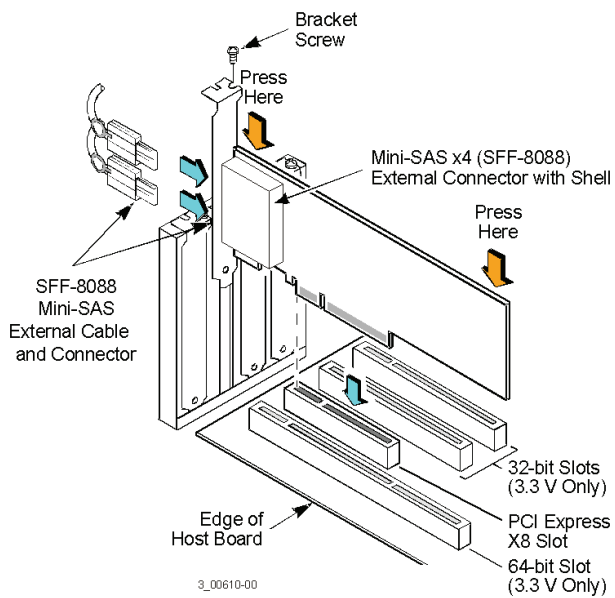
   b. Remove the full-profile bracket from the HBA. Do not damage the board.

   c. Place the HBA on top of the low-profile bracket. Position the bracket so that the screw holes in the tabs align with the openings in the board.

   d. Using a #1 Phillips torque screwdriver that is ESD safe, set to a maximum torque of 4.8 ± 0.5 inch-pounds. Replace the two Phillips screws removed in step a.

**CAUTION:** Exceeding these torque specifications can damage the board, connectors, or screws, and can void the warranty on the HBA.

5. **Insert the HBA in an available PCIe® slot.** Locate an empty PCIe slot. Remove the blank bracket panel on the back of the computer that aligns with the empty PCIe slot. Save this bracket screw, if applicable. Align the HBA to a PCIe slot. Press down gently, but firmly, to seat the HBA correctly in the slot. The following figure shows how to insert the HBA in a PCIe slot.

42611-01B

Bracket Screw
Press Here
Mini-SAS x4 (SFF-8088) External Connector with Shell
Press Here
SFF-8088 Mini-SAS External Cable and Connector
Edge of Host Board
32-bit Slots (3.3 V Only)
PCI Express X8 Slot
64-bit Slot (3.3 V Only)
3_00610-00

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**NOTE:** The shape, size, and locations of the components on your HBA and its bracket might vary from this illustration. The HBA requires a x8 PCIe slot.

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6. **Secure the HBA bracket to the system's chassis.** Install the bracket screw, if applicable, or engage the system retention mechanism to secure the HBA to the system's chassis.

7. **Replace the cover of the chassis.**

8. **Connect SAS cables between the HBA and the SAS enclosure that contains SATA or SAS devices.** The LSISAS9200-8e HBA has two external X4 mini-SAS connectors, each connecting to four 6Gb/s SAS ports. Use the appropriate cable to connect the HBA to SAS or SATA disk drive enclosures.

For connection to external disk drive enclosures, use an external cable with a standard mini-SAS connector (SFF-8088) on both ends of the cable.

9. **Reconnect any power cords, and power up the system.** Reconnect any power cords and reconnect any network cables. Turn on the power.

The hardware installation of your LSI 6Gb/s SAS HBA is complete. The next procedure is to install the appropriate operating system drivers.

## DRIVER INSTALLATION

All driver installation instructions are available at http://go.lsi.com/hbas. Select **6Gb/s SAS HBAs > Product Name > Software Downloads**.

## TECHNICAL SUPPORT

For assistance installing, configuring, or running the LSI SAS 9200-8e HBA, contact LSI Technical Support:

**E-mail:** globalsupport.pld@avagotech.com

**Web Site:** www.lsi.com/support/

## WARRANTY NOTICE

**1.** The warranty does not cover the return of parts damaged by changing the bracket.

**2.** The warranty does not cover ESD damage to the HBA. HBAs returned without a bracket mounted on the board will be returned without return merchandise authorization (RMA) processing.

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