How to Replace a SIIG SC-SA0R11-S1 HBA with an LSI 9300 HBA
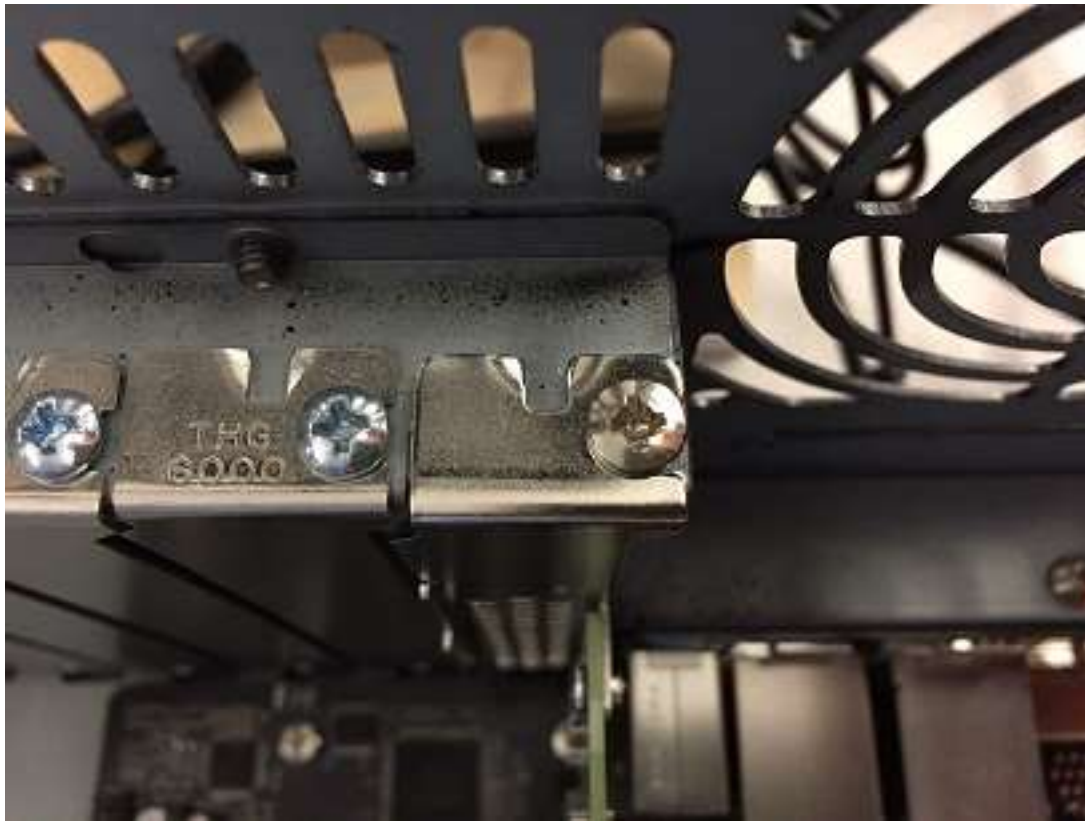
Steps

Follow the steps below to replace your SIIG SC-SA0R11-S1 Host Bus Adapter card with the LSI 9300 Host bus adapter.
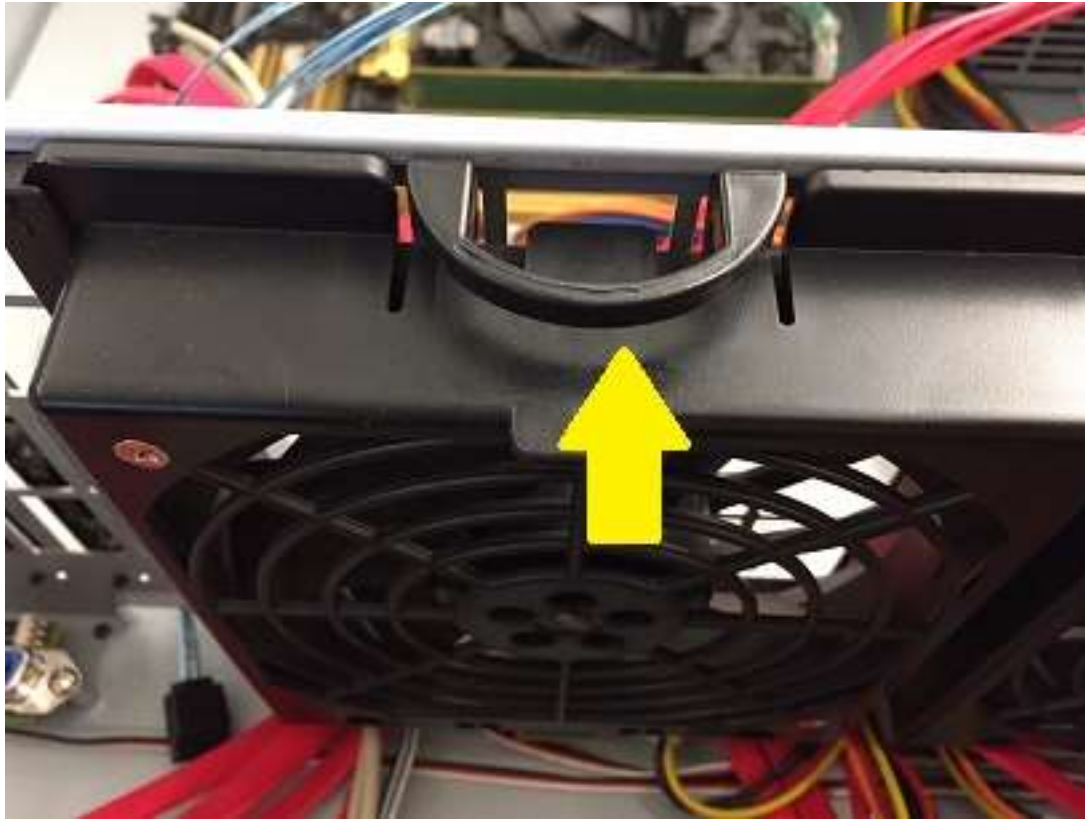
1. Power down the system.
2. Locate the host bus adapter. If your system is a Hybrid with an analog capture board, the host bus adapter is the one with the SATA cables between this card and hard drives in the front of the system.

3. Loosen the hold-down from the cross-bar and move this out of the way.
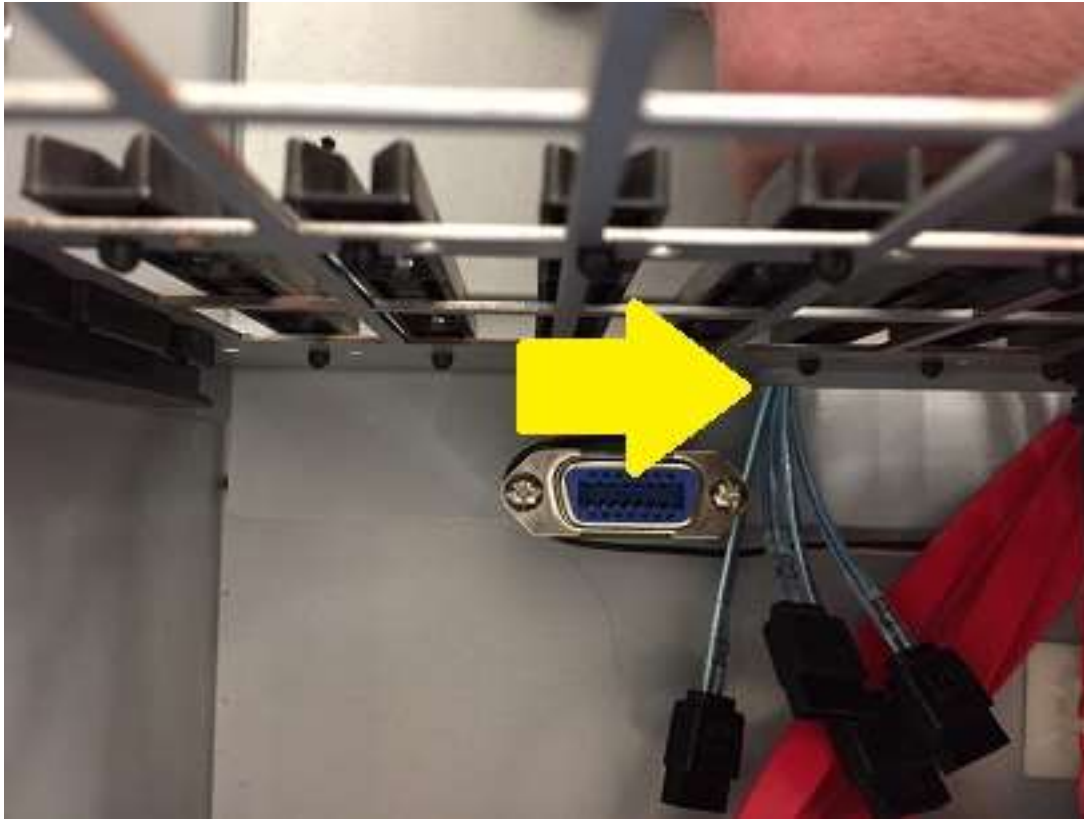4. Remove the screw hold down from the back panel.

5. Remove the SATA cables from the host bus adapter.
6. Remove the host bus adapter from the motherboard.
7. Remove removing the fan in the center chassis on this side of the system will make passing cables easier. To remove the fan, pull the thumb-tab out and then up.

8. With the fan removed disconnect the SATA cables from the backs of the hard disks, then remove the cables from the system.

9. Thread the SATA connectors from the Mini-SAS cable through the opening at the bottom of the fan divider in the middle of the chassis. These are numbered 1-4.

10. Connect the SATA connectors to the back of each hard disk.

11. Slide the fan back into the bracket and secure to the connector at the bottom of the chassis.
12. Insert the new LSI 9300 host bus adapter into the expansion slot you removed the old board from and secure to the back panel with the screw you removed earlier.
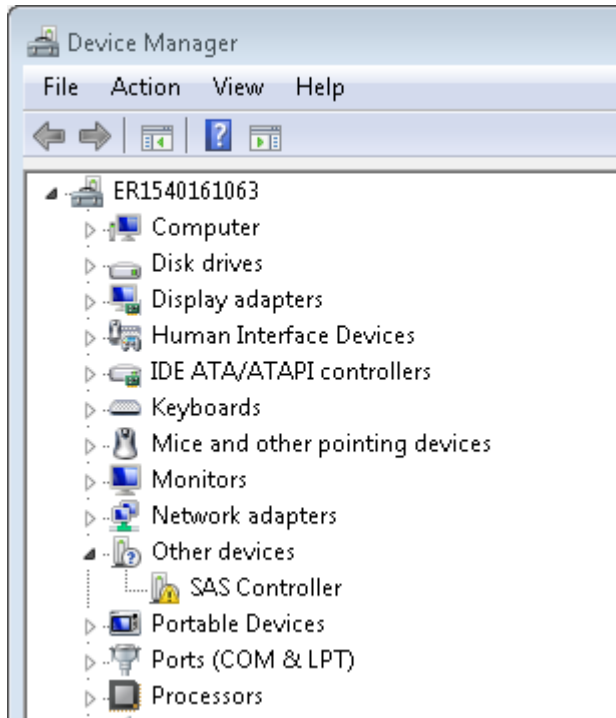13. Connect the Mini-SAS connector to the board.

If you are using more than four hard drives in your system you may opt to leave the additional drives connected directly to the motherboard or use a second Mini-SAS to SATA cable to connect those to the host bus adapter card as well. It does not matter which Mini-SAS port on the LSI board you connect the cable to.

If you have a Ubuntu/Linux system you may power on the system and the drives should be recognized by the system and mounted as expected for use. The system may reboot itself during initialization of the new host bus adapter when powering on after replacement.

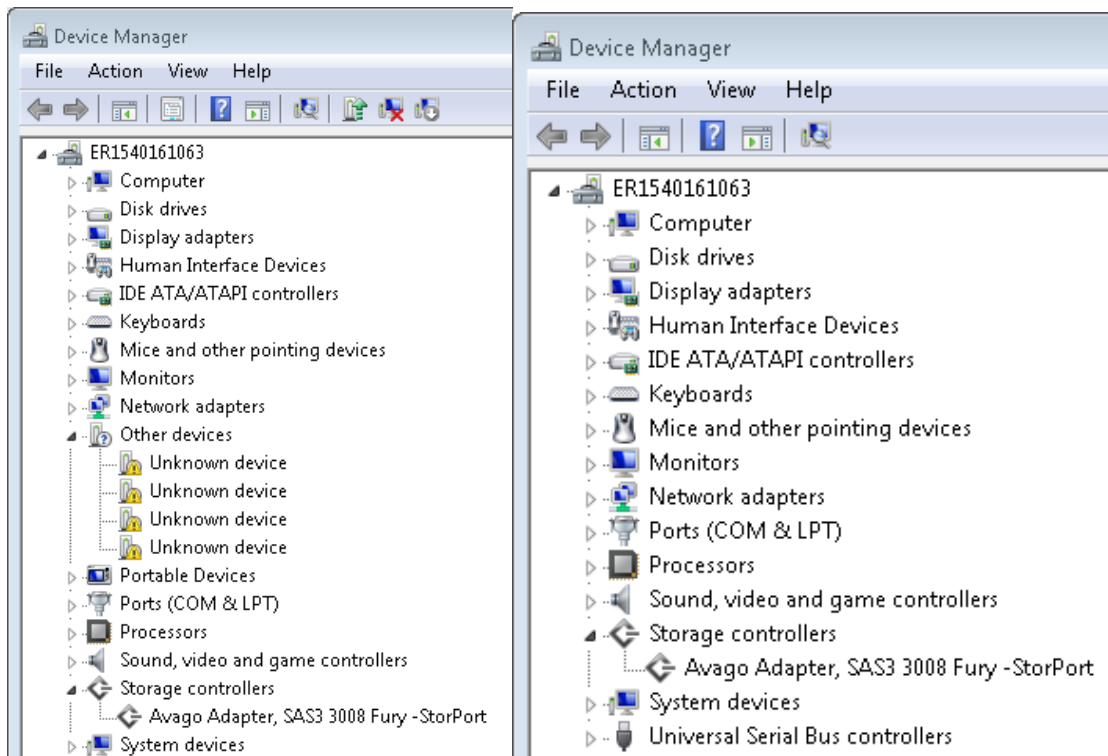If you have a Windows system, additional steps below must be followed.

1. Open the 'Start' menu and type 'Services.msc'. Open Services. Find 'ExacqVision Server' and stop this service.
2. Open Device Manager. This will show an unknown 'SAS Controller' under 'Other devices'.

3. Download the driver for the LSI 9300 for your operating system. Windows 7 Drivers are listed under the Archive link for the Drivers section.
4. Unpack the downloaded ZIP file to the Desktop to make it easy to find.
5. In Device Manager, right-click on the 'SAS Controller' and select 'Update Driver Software...'
6. Select 'Browse my computer for driver software'. Use the file explorer to highlight the unpacked folder on your Desktop.
7. Once the driver installs 'Other devices' appear. Be patient, after a few minutes the drives will be recognized and you should no longer have unrecognized devices in Device Manager.

8. Rename the 'psfpi.xml' and 'sysmgmtpi.xml' files located in C:\Program Files\exacqVision\Server
9. Restart the exacqVision Server service.