# LSI SAS 9207-8i PCIe to 6Gb/s SAS HBA Running On Dell Systems—Important Information

**CAUTION: Many repairs may only be done by a certified service technician. You should only perform troubleshooting and simple repairs as authorized in your product documentation, or as directed by the online or telephone service and support team. Damage due to servicing that is not authorized by Dell is not covered by your warranty. Read and follow the safety instructions that came with the product.**

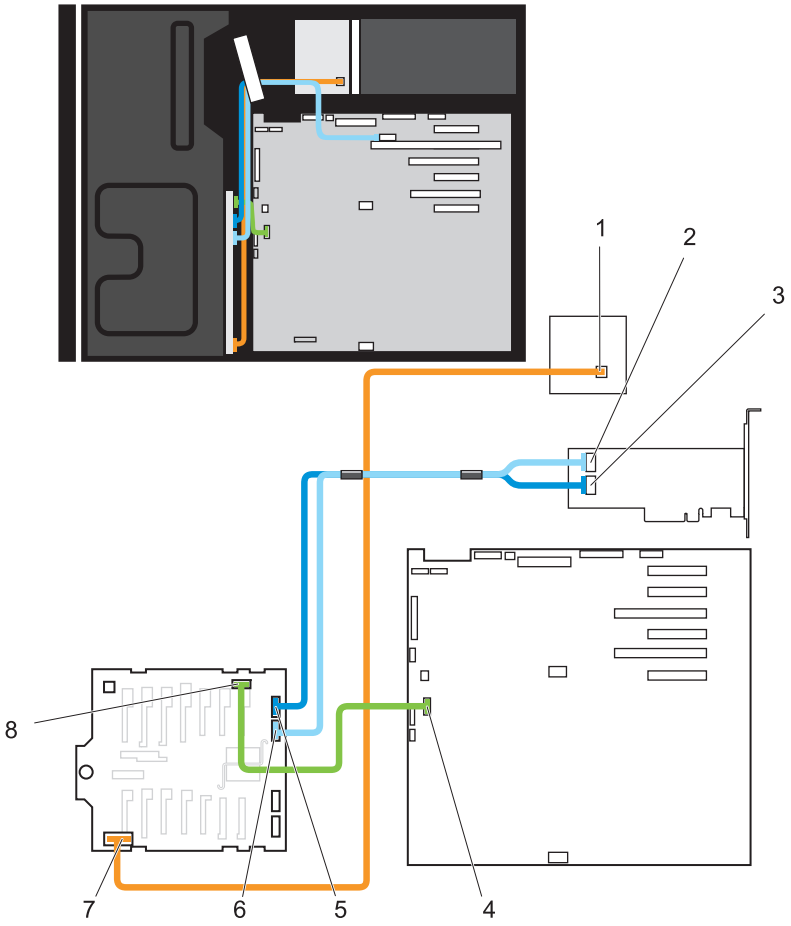
**NOTE:** This publication contains information on the LSI 9207 PCIe cards supported on Dell systems. For more information on the specifications, downloads, and documentation for the LSI 9207 PCIe card, see **lsi.com/sep/Pages/Dell.aspx**. Dell does not support firmware and driver downloads not listed in **lsi.com/sep/Pages/Dell.aspx**.

## Cabling the LSI 9207 PCIe Card

- Your system running the LSI 9207 PCIe card is preinstalled with the required drivers if you ordered the card with your Dell PowerEdge system.
- If you ordered the LSI 9207 PCIe card separately, you must install the card in the system and download the drivers from **lsi.com/sep/Pages/Dell.aspx**. To install the card in the system, see the relevant cabling diagram in the section "Hard-Drive Backplane" of the system-specific Owner's Manual at **dell.com/support/manuals**. For more information on locating your system-specific Owner's Manual, see "Finding Your System-Specific Owner's Manual" on page 3.

  An example of the cabling diagram is given below.

**Cabling the LSI 9207 PCIe Card**




| | | | |
|---|---|---|---|
| 1 | power connector on power distribution board | 2 | SAS B connector on LSI card |
| 3 | SAS A connector on LSI card | 4 | I2C connector on system board |
| 5 | SAS A connector on backplane | 6 | SAS B connector on backplane |
| 7 | backplane power connector | 8 | I2C connector on backplane |

### Finding Your System-Specific Owner's Manual

1. Go to **dell.com/support/manuals**.
2. If required, select your country from the top right-corner of the page and then select your line of business.
3. In the next page, under **Tell us about your Dell system**, enter the Service Tag or the Express Service Code of your Dell PowerEdge system and click **Submit**.

   **NOTE:** Your system is identified by a unique Express Service Code and Service Tag number. The Express Service Code and Service Tag are found on the front of the system by pulling out the information tag.

The documentation page for your PowerEdge system is displayed.

## Supported Dell PowerEdge Systems

The following PowerEdge systems are supported: PowerEdge R720, R720XD, R620, R520, T620, R820, T420, and T320.

## Supported Operating Systems

The following operating systems are supported on Dell systems:

- Microsoft Windows Server 2008 R2 and Windows Server 2012
- Red Hat Enterprise Linux version 5.7 and version 6.3
- SUSE Enterprise Linux version 10 SP4 and version 11 SP2
- VMware ESX 4.1, ESXi 4.1, and ESXi 5.0

## Known Issues With the LSI 9207 PCIe Card

- For PowerEdge T420 and PowerEdge T320 systems installed with sixteen or eight hard-drive backplanes, the LSI 9207 PCIe card causes the hard-drive status indicator to be permanently in the off state.
- For PowerEdge T420 and PowerEdge T320 systems installed with four hard drives, the LSI 9207 PCIe card causes the hard-drive activity indicator to be permanently in the off state.
- The LSI 9207 PCIe card is non-RAID. You cannot create a RAID configuration with this card.

- You cannot enter the **LSI9207 option ROM** during POST if another Fibre Channel (FC) card is installed in the system. The <Ctrl><C> hot key is the same for the LSI 9207 PCIe card and the FC card, however, the FC card priority is higher than that of the LSI 9207 PCIe card.

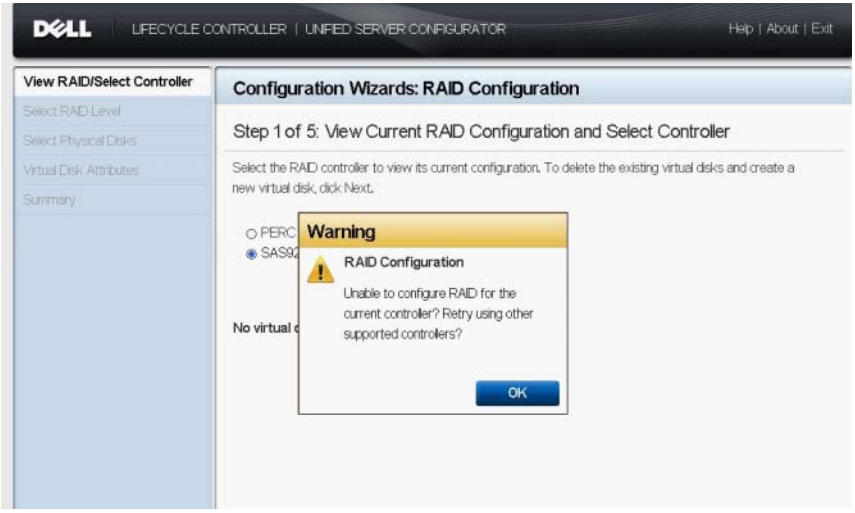
# Limitations of Managing the LSI 9207 PCIe Card With Dell Applications

**NOTE:** The LSI 9207 PCIe card is only supported in the legacy BIOS using the Controller BIOS option, <Ctrl><C>.

The LSI 9207 PCIe card is either not listed or is displayed as listed, but not configurable, under the following Dell applications:

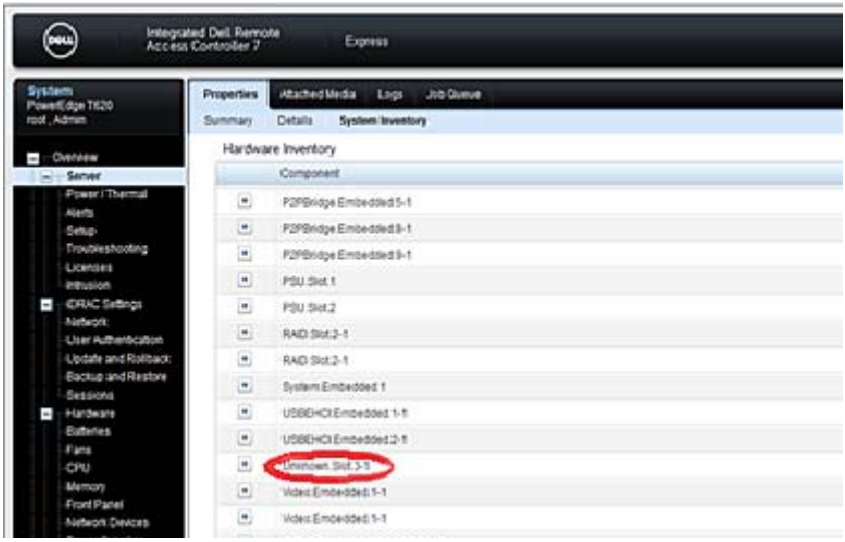
- **Dell Remote Enablement** : Remote Enablement displays the LSI 9207 PCIe card as unknown.
- **Dell LifeCycle Controller**: The **Hardware Inventory** under the Dell Life Cycle Controller shows the LSI 9207 PCIe card as unknown. The configuration page lists the LSI 9207 PCIe card under **RAID controller** page but you cannot select the card for configuration.

**LSI 9207 PCIe Card Unconfigurable in Dell LifeCycle Controller GUI**



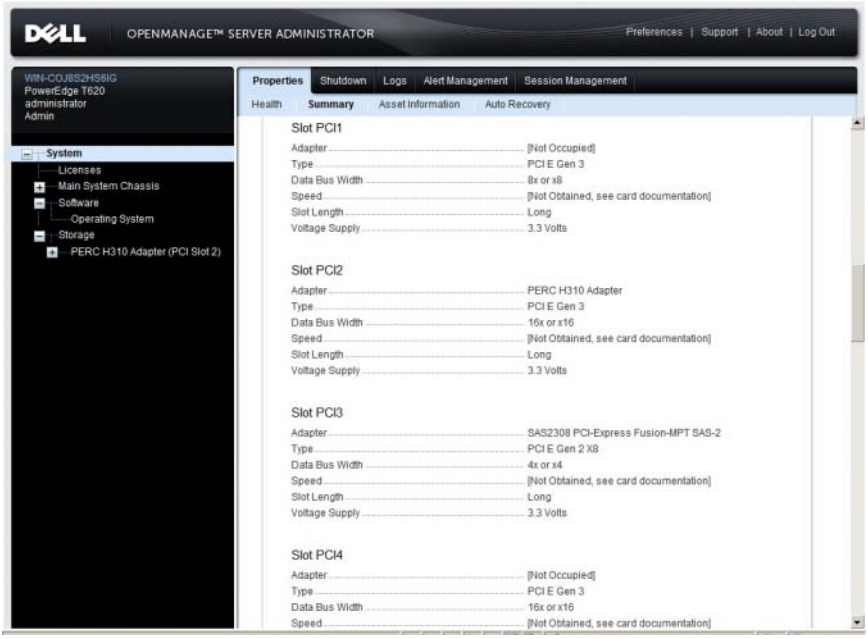
- **Integrated Dell Remote Access Controller (iDRAC)**: The LSI 9207 PCIe card is visible only under **Inventory** page of the iDRAC GUI and is displayed as unknown.

**LSI 9207 PCIe Card Displayed as Unknown in iDRAC GUI**



- **Dell OpenManage Server Administrator**: Dell OpenManage Server Administrator displays the LSI 9207 PCIe card under the **Main System Chassis** section. The **Storage** section does not list the LSI 9207 PCIe card for configuration.

**LSI 9207 PCIe Card Unconfigurable in Dell OpenManage Server Administrator**




# Using Nautilus to Flash Hard Drives

1. Go to **support.dell.com** and enter the keyword `Nautilus` in the search box.
2. Follow the instructions to download the latest version of Nautilus.

   **NOTE:** Nautilus version A43 and later supports the LSI 9207 PCIe card.
3. Double-click the Nautilus file that ends with **_ZPE** to unzip the files.
4. Go to the **C:\dell\drivers\DVOMC** directory.
5. Double-click the **UsbMake** file to start the utility to make a bootable USB drive.
6. Click **Install to USB Flash Drive** to write the file to the USB drive.

7. Press <F11> at boot to start the boot manager after the file is written to the USB drive.
8. In the boot manager, select **UEFI Boot Menu**.

   The system boots from the USB drive.
9. At the message `Press ESC in 5 seconds to skip startup.nsh`..., press <Esc>.

   The **Shell>** prompt is displayed.
10. Run the command `Fd startup nautilus.efi` to display the `fs`*x*`:\>` prompt.
11. Run the command:
    `nautilus -fwhw:disk -fwForce -o:naut.txt`

    **NOTE:** There is a space before each dash in the command.

    The GUI utility starts and displays the available hard drives.
12. Click **Update Firmware** to begin the update.

    If the update is successful, the following message is displayed:

    `All tests passed`
13. Exit the utility and reboot the system.

# Contacting Dell

To contact Dell for sales, support, or technical issues, see **dell.com/contactdell**.

# Documentation Feedback

If you have feedback for this document, write to **documentation_feedback@dell.com**. Alternatively, you can click on the **Feedback** link in any of the Dell documentation pages, fill up the form and click **Submit** to send in your feedback.

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