

DP SATA II PCIe Installation Guide

Introduction

The *DP SATA II PCIe* is designed to add two Serial ATA channels for connecting up to two hard disk drives to your PCIe equipped system.

Features and Benefits

- Compliant with PCI Express Base Specification Revision 1.0a
- Compliant with Serial ATA 1.0a specification with support for full complement of SATA II optional features
- PCI Express 1-lane (x1) SATA II adapter works with PCI Express slots with different lane width
- Installs in any available PCI Express slot and supports data transfer rates up to 3.0Gbps (300MBps)
- Spare enhanced low profile bracket is included to work in low profile chassis
- Supports Native Command Queuing (NCQ), Non-zero offsets NCQ, and Out-of-order data delivery NCQ
- Independent command fetch, scatter/gather, and command execution

System Requirements

- PCI Express-enabled system with an available PCI Express slot
- Windows® 8 (32-/64-bit) / 7 (32-/64-bit) / Vista (32-/64-bit) / XP (32-/64-bit) / 2000 / Server 2003 & 2008 (32-/64-bit) / Server 2008 R2 / Server 2012

Package Contents

- *DP SATA II PCIe* adapter
- Spare enhanced low profile bracket
- SATA data cable
- Driver CD and installation guide

Layout

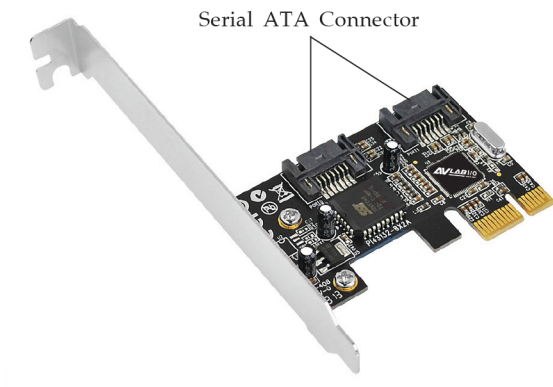


Figure 1: DP SATA II PCIe Board Layout

Hardware Installation

Note: For low-profile systems, replace the currently mounted bracket with the included low profile bracket. General instructions for installing the card are provided below. Since the design of computer cases and motherboards vary, refer to your computer's reference manual for further information, if needed.

Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

1. Turn OFF the power to your computer and any other connected peripheral devices.
2. Unplug the power cord from the computer. Remove the computer cover.
3. Remove the slot bracket from an available PCIe slot.
4. To install the card, carefully align the card's bus connector with the selected PCIe slot on the motherboard. Push the board down firmly, but gently, until it is well seated.
5. Replace the slot bracket holding screw to secure the card.

Device Connection

The *DP SATA II PCIe* is a dual channel Serial ATA II controller that supports up to two Serial ATA hard disk drives. If you plan to use the second channel, you will need to purchase another SATA data cable.

1. Install your Serial ATA hard disk drive(s) into the chassis.
2. Connect the hard disk drive to the system power supply.
3. Connect one end of the **SATA data cable** to the hard disk drive.



Figure 2. Hard disk drive connections

4. Attach the other end of the **SATA data cable** to the Serial ATA connector on the *DP SATA II PCIe*.

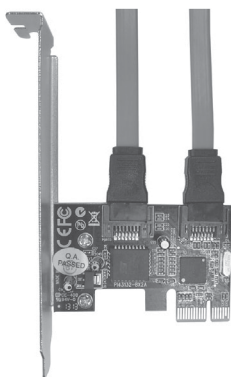


Figure 3. Connecting SATA data cable

5. Follow the same instructions when connecting a second hard disk drive.
6. Device connection is now complete. Replace the computer cover and reconnect the power cord.

Driver Installation

This section provides information for how to install the *DP SATA II PCIe* drivers.

Windows 8 (32-/64-bit)

New Windows 8 (32-/64-bit) Installation

If you don't have two CD-ROM drives, copy the contents of **Win8** folder in the driver CD to your Flash Drive, then follow the directions below.

1. Install the board and follow Microsoft procedures to install Windows accordingly.
2. At **Install Windows** or **Windows Setup**, click **Next**, then click **Install now**.
3. Click **Browse**.

4. Double click folder **Win8** located on the driver CD or your Flash Drive.
For 32-bit: Click **32bit**, then click **OK**.
For 64-bit: Double click **64bit**, click **AMD64**, then click **OK**.
5. Select **Silicon Image SiI3132...Controller**, then click **Next**.
6. Check **I accept the license terms**, click **Next**.
7. Select **Custom...(advanced)**, then click **Next**.
8. Click **OK** to continue. Skip this step if not prompted.
9. Wait several seconds, then follow the on-screen instructions to complete Windows installation.

Existing Windows 8 (32-/64-bit) Installation

1. Install the board and boot up Windows.
2. Insert the driver CD. Close the **AutoPlay** box if prompted.
3. Right click **Computer, Manage, Device Manager**.
4. Right click **Serial ATA Controller** under **Other devices**, click **Update Driver Software**.
5. Click **Browse my computer for driver software**.
6. *For 32-bit:* Type **D:\Win8\32bit**
For 64-bit: Type **D:\Win8\64bit\AMD64**
(Change **D:** to match your CD/DVD-ROM drive letter)
7. Click **Next**, and click **Close**.

Windows 7 (32-/64-bit) / Server 2008 R2

New Windows 7 (32-/64-bit) / Server 2008 R2 Installation

If you don't have two CD-ROM players, copy the contents of **Win7** folder in the driver CD to your Flash Drive, then follow the directions below:

1. Install the board and follow Microsoft procedures to install Windows accordingly.
2. At **Install Windows** or **Windows Setup**, click **Next**, then click **Install now**.
3. Click **Browse**.
4. Double click folder **Win7** located on the driver CD or your Flash Drive.

For Window 7 32-bit: Click **32bit**, then click **OK**.

For Windows 7 64-bit / Server 2008 R2: Double click **64bit**, click **AMD64**, then click **OK**.

5. Select **Silicon Image SiI 3132...Controller**, then click **Next**.
6. Check **I accept the license terms**, click **Next**.
7. Select **Custom...(advanced)**, then click **Next**.
8. Click **OK** to continue. Skip this step if not prompted.
9. Wait several seconds, then follow the on-screen instructions to complete Windows installation.

Existing Windows 7 (32-/64-bit) / Server 2008 R2 Installation

1. Install the board and boot up Windows.
2. Insert the driver CD. Close the **AutoPlay** box if prompted.
3. Right click **Computer, Manage, Device Manager**.
4. Right click **Serial ATA Controller** under **Other devices**, click **Update Driver Software**.

5. Click **Browse my computer for driver software**.
6. *For Windows 7 32-bit*: Type **D:\Win7\32bit**, click **OK**.
For Windows 7 64-bit / Server 2008 R2: Type **D:\Win7\64bit\AMD64**
(Change **D:** to match your CD/DVD-ROM drive letter)
7. Click **Next**, and click **Close**.

Server 2012

New Server 2012 Installation

If you don't have two CD-ROM players, copy the contents of **Win7** folder in the driver CD to your Flash Drive, then follow the directions below:

1. Install the board and follow Microsoft procedures to install Windows accordingly.
2. At **Install Windows** or **Windows Setup**, click **Next**, then click **Install now**.
3. Click **Browse**.
4. Double click folder **Win7** located on the driver CD or your Flash Drive. Double click **64bit**, click **AMD64**, then click **OK**.
5. Select **Silicon Image SiI 3132...Controller**, then click **Next**.
6. Check **I accept the license terms**, click **Next**.
7. Select **Custom...(advanced)**, then click **Next**.
8. Click **OK** to continue. Skip this step if not prompted.
9. Wait several seconds, then follow the on-screen instructions to complete Windows installation.

Existing Server 2012 Installation

1. Install the board and boot up Windows.
2. Insert the driver CD. Close the **AutoPlay** box if prompted.
3. Click **Windows** key. Right click **Computer, Properties, Device Manager**.
4. Right click **Serial ATA Controller** under **Other devices**, click **Update Driver Software**.
5. Click **Browse my computer for driver software**.
6. Type **D:\Win7\64bit\AMD64**, click **Next**. (Change **D:** to match your CD/DVD-ROM drive letter)
7. Click **Close**.

Windows Vista (32-/64-bit) / Server 2008 (32-/64-bit)

New Windows Vista (32-/64-bit) / Server 2008 (32-/64-bit) Installation

If you don't have two CD-ROM players, copy the contents of **Floppy** folder in the driver CD to your Flash Drive for 32-bit system; copy the contents of **64bit** folder for 64-bit system. Then follow the directions below:

1. Install the board and follow Microsoft procedures to install Windows accordingly.
2. At **Install Windows** or **Windows Setup**, click **Next**, then click **Install now**.
3. Click **Browse**.
4. *For 32-bit:* Double click folder **Floppy** located on the driver CD or your Flash Drive, then click **OK**.
For 64-bit: Double click folder **64bit** located on the driver CD or your Flash Drive, select **AMD64**, then click **OK**.

5. Select **Silicon Image SiI 3132 ... Controller**, click **Next**.
6. Check **I accept the license terms**, click **Next**.
7. Select **Custom...(advanced)**, then click **Next**.
8. Click **OK** to continue. Skip this step if not prompted.
9. Wait several seconds, then follow the on-screen instructions to complete Windows installation.

Existing Windows Vista (32-/64-bit) / Server 2008 (32-/64-bit) Installation

1. Install the board and boot up Windows.
2. At the **Found New Hardware**, click **Cancel**.
3. Check **Device Manager**, right click **Serial ATA Controller** under Other devices, then click **Update Driver Software**.
4. Click **Browse my computer for driver software**. Insert the driver CD.
5. *For 32-bit*: Type **D:\Floppy**
For 64-bit: Type **D:\64bit\AMD64**
(Change **D**: to match your CD/DVD-ROM drive letter)
6. Click **Next**, and click **Close**.

Windows XP (32-/64-bit) / Server 2003 (32-/64-bit)

New Windows XP (32-bit) / 2003 (32-bit) Installation

A floppy disk for the driver installation is required. Copy the contents of the **Floppy** folder in the driver CD to your blank floppy disk, then follow the directions below:

1. Install the board and follow Microsoft procedures to install Windows accordingly.
2. At the **Windows Setup** screen, press **F6** to continue.

3. Insert the driver floppy disk you made above. Press **S**, then press **Enter**.
4. Select **Silicon Image SiI 3132 ... Controller for Windows XP and Server 2003**, then press **Enter**.
5. Press **Enter** again and follow the on-screen instructions to complete the installation.

New Windows XP (64-bit) / 2003 (64-bit) Installation

A floppy disk for the driver installation is required. Copy the contents of the **64bit** folder in the driver CD to your blank floppy disk. Then follow the directions below:

1. Install the board and follow Microsoft procedures to install Windows accordingly.
2. At the **Windows Setup** screen, press **F6** to continue.
3. Insert the driver floppy disk you made above. When prompted, press **S**, then press **Enter**.
4. Select **Silicon Image SiI 3132 ... Controller (64-bit Extended)**, and press **Enter**.
5. Press **Enter** again to continue and follow the on-screen instructions to complete the installation.

Existing Windows XP (32-/64-bit) / 2003 (32-/64-bit) Installation

1. Install the board and boot up Windows.
2. Insert the driver CD.
3. At the **Found New Hardware**, select **No, not this time**, click **Next**. Skip this step if not prompted.
3. Select **Install from a list or a specific location (Advanced)**, then click **Next**.
4. Check **Include this location in the search**, uncheck the other box.

For 32-bit: Type **D:\Floppy**

For 64-bit: Type **D:\64bit\AMD64**

(Change **D:** to match your CD/DVD-ROM drive letter)

5. Click **Next**, and click **Finish** to complete the installation.

Windows 2000

New Windows 2000 Installation

A floppy disk for the driver installation is required. Copy the contents of **Floppy** folder in the driver CD to your blank floppy disk. Then follow the directions below:

1. Install the board and follow Microsoft procedures to install Windows 2000 accordingly.
2. At the **Windows 2000 Setup** screen, press **F6**.
3. Insert the driver floppy disk you made above. Press **S**, then press **Enter**.
4. Select **Silicon Image SiI 3132 ... Controller for Windows 2000** and press **Enter**.
5. Press **Enter** again to continue and follow the on-screen instructions to complete the installation.

Existing Windows 2000 Installation

1. Install the board and boot up Windows 2000.
2. At the **Found New Hardware Wizard**, click **Next**.
3. Select **Search for a suitable driver for my device (recommended)**, and click **Next**.
4. Insert the driver CD, check **Specify a location**, uncheck the other boxes, click **Next**.
5. Type **D:\Floppy** , click **OK**, and click **Next**.
(Change **D:** to match your CD/DVD-ROM drive letter)
6. Click **Finish** to complete the installation.

To Verify Windows Installation

1. Use Device Manager to verify installation.
For Windows 8 / 7 / XP / Server 2003 / 2000: Right click **Computer** or **My Computer**, click **Manage**, click **Device Manager**.
For Windows Vista: Right click **Computer**, click **Manage**, click **Continue**. Click **Device Manager**.
For Windows Server 2012: Click **Windows** key. Right click **Computer**, **Properties**, click **Device Manager**.
For Windows Server 2008 / 2008 R2: Right click **Computer**, **Manage**. Double click **Diagnostics**, click **Device Manager**.
2. Double click either **SCSI and RAID controllers** or **Storage controllers**. **Silicon Image SiI 3132 ... Controller** should be displayed.