SATA II-150 PCI
Quick Installation Guide

Introducing the *SATA II-150 PCI*

The *SATA II-150 PCI* is an ultra high-speed dual channel Serial ATA Generation 2 controller for use in PCI enabled systems.

Features and Benefits

- Add up to two high-speed SATA hard drives
- New Serial ATA cable – easier to install & provides better air circulation
- Supports two SATA channels and data transfer rate up to 1.5Gb/s (150MB/s)
- Supports Native Command Queuing (NCQ) and SATA TCQ commands
- Onboard bus master engine relieves the system processor from book keeping and enhances performance
- Features independent 256-byte FIFOs per channel for host reads and writes
- Breaks the 137GB barrier! Works with various brands of large capacity Serial ATA hard disks
- Supports SATA hard disk hot-plugging
- Compliant with PCI 2.3
- Compliant with Serial ATA 1.0 specifications and complement of SATA II optional features
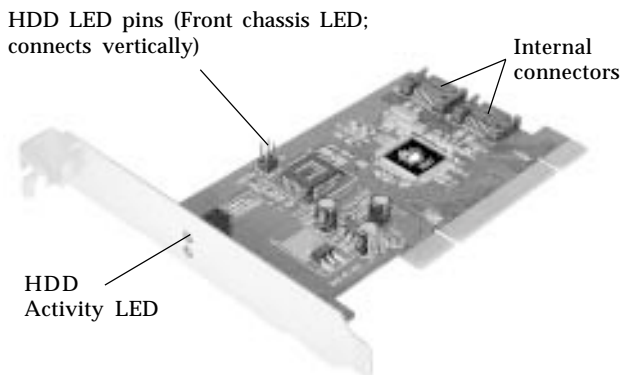
System Requirements

• Pentium® or equivalent PC with an available PCI slot

• Windows® 2000 / XP (32-/64-bit) / Server 2003 & 2008 (32-/64-bit) / Vista (32-/64-bit)

Package Contents

• *SATA II-150 PCI*

• SATA data cable and power cable

• Spare low profile bracket

• Driver CD and this quick installation guide

Layout

Figure 1. SATA II-150 PCI 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 back of the computer.
3. Remove your computer's cover.
4. Remove the slot bracket from an available PCI slot.
5. To install the card, carefully align the card's bus connector with the selected PCI slot on the motherboard. Push the board down firmly, but gently, until it is well seated.
6. Replace the slot bracket's holding screw to secure the card.
7. If needed, connect the HDD LED pins to monitor HDD activity from the front panel of your chassis.
8. Replace the computer cover and reconnect the power cord.

Driver Installation

This section provides information on how to install the *SATA II-150 PCI* drivers for the following operating systems.

Windows 2000

New Windows 2000 Installation

A new installation of Windows 2000 requires a floppy disk for the driver installation. To make this floppy disk, copy the **contents** of the **Floppy** folder, found on the driver CD, onto a blank floppy disk then follow the directions below.

1. Install the board and follow the Microsoft procedures to install Windows 2000 accordingly.
2. Restart your system when prompted during Windows' installation.
3. At the **Windows 2000 Setup** screen, press **F6** to install the driver.
4. Insert the driver diskette. Press **S**, then press **Enter**.
5. Select **INITIO INIC1620 S-ATA Adapter For Windows 2000** and press **Enter**.
6. Press **Enter** to continue and follow 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 **CD-ROM drives**, uncheck the other boxes, and click **Next**. Click **Next** again to continue.

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5. Click **Yes**, then click **Finish.**
6. Restart Windows to complete the driver installation.

Windows XP/Server 2003

New Windows XP/Server 2003 Installation

A new installation of Windows XP/Server 2003 requires a floppy disk for the driver installation. To make this floppy disk, copy the **contents** of the **Floppy** folder, found on the driver CD, onto a blank floppy disk then follow the directions below.

1. Install the board and follow the Microsoft procedures to install Windows accordingly.
2. Restart your system when prompted by Windows' installation.
3. At the **Windows Setup** screen, press **F6** to install the driver.
4. Insert the driver diskette. Press **S** then press **Enter**:
   <u>32-bit</u>: Select **INITIO INIC1620 S-ATA Adapter For Windows XP/2003** and press **Enter**.
   <u>64-bit</u>: Select **INITIO INIC1620 S-ATA Adapter For Windows XP/2003 AMD64**
5. Press **Enter** to continue and follow on-screen instructions to complete the installation.

Existing Windows XP/Server 2003 Installation

1. Install the board and boot up Windows
2. At the **Found New Hardware Wizard**:
   <u>XP (w/SP1 or earlier)/Server 2003</u>: continue to step #3.
   <u>XP (w/SP2 or later)/Server 2003 (w/ SP1 or later)</u>: select **No, not at this time**, then click **Next**.

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3. Insert the driver CD, select **Install the software automatically (Recommended)**, then click **Next**, **Next**.

4. Click **Continue Anyway**, then click **Finish**.

5. Restart Windows to complete the driver installation.

To Verify Windows 2000/XP/2003 Installation

1. Right click **My Computer** and click **Manage**.

2. Select **Device Manager**.

3. Double click **SCSI and RAID Controllers**, then double click **Initio inic1620 S-ATA Adapter**.

4. A message *This device is working properly* is displayed, the driver has been correctly installed.

Windows Vista™ (32-bit)

New Windows Vista Installation

1. Install the board and follow Microsoft procedures to install Windows accordingly.

2. At **Where do you want to install Windows?**, click **Load Driver**.

3. Insert driver CD, then click **Browse.**

4. Double click **CD Drive (D:).** (change D: to match your CD-ROM drive letter).

5. Highlight **Vista32** folder, then click **OK**.

6. Select **Initio inic1620 S-ATA Adapter** (**D:\Vista32\1620.inf**), then click **Next**.

7. Follow on-screen instructions to complete Windows Vista installation.

Existing Windows Vista Installation

1. Install the board and boot up Windows.
2. At the **Found New Hardware Wizard**, insert the driver CD, select **Locate and install driver software (Recommended)**, then click **Continue**.
3. Click **Next**, select **Install this driver anyway**, then click **Close**.
4. Remove the driver CD and restart Windows to complete the installation.

Windows Vista (64-bit)

New Windows Vista Installation

1. Install the board and follow Microsoft procedures to install Windows accordingly.
2. At **Where do you want to install Windows?**, click **Load Driver**.
3. Insert driver CD, then click **Browse**.
4. Double click **CD Drive (D:)**. (change D: to match your CD-ROM drive letter).
5. Highlight **Vista64** folder, then click **OK**.
6. Select **Initio inic1620 S-ATA Adapter** (**D:\Vista64\1620.inf**), then click **Next**.
7. Follow on-screen instructions to complete Windows Vista installation.

Existing Windows Vista Installation

1. Install the board and boot up Windows.
2. At the **Found New Hardware Wizard**, insert the driver CD, select **Locate and install driver software (Recommended)**, then click **Continue**.
3. Click **Next**, select **Install this driver anyway**, then click **Close**.

4. Remove the driver CD and restart Windows to complete the installation.

To Verify Windows Vista Installation

1. Right click **Computer,** click **Manage**, click **Continue**.
2. Select **Device Manager**.
3. Double click **SCSI and RAID Controllers**, then double click **Initio inic1620 S**-**ATA Adapter**.
4. A message *This device is working properly* is displayed, the driver has been correctly installed.

Windows Server 2008 (32-bit)

New Windows 2008 Installation

1. Install the board and follow Microsoft procedures to install Windows accordingly.
2. At **Where do you want to install Windows?**, click **Load Driver**.
3. Insert driver CD, then click **Browse**.
4. Double click **CD Drive (D:)**. (change D: to match your CD-ROM drive letter).
5. Highlight **Vista32** folder, then click **OK**.
6. Select **Initio inic1620 S**-**ATA Adapter** (**D:\Vista32\1620.inf**), then click **Next**.
7. Follow on-screen instructions to complete Windows Vista installation.

Existing Windows 2008 Installation

1. Install the board and boot up Windows.
2. At the **Found New Hardware Wizard**, insert the driver CD, select **Locate and install driver software (Recommended)**, then click **Don't search online.**
3. Click **I don't have the disc. Show me other options**.

4. Click **Browse my computer for driver software (Advanced)**.

5. Type in **D:\Vista32,** (change D: to match your CD-ROM drive letter), then click **Next**.

6. Click **Install this driver software anyway**, then click **Close**.

7. Remove the driver CD and restart Windows to complete the installation.

Windows Server 2008 (64-bit)

New Windows 2008 Installation

1. Install the board and follow Microsoft procedures to install Windows accordingly.

2. At **Where do you want to install Windows?**, click **Load Driver**.

3. Insert driver CD, then click **Browse**.

4. Double click **CD Drive (D:)**. (change D: to match your CD-ROM drive letter).

5. Highlight **Vista64** folder, then click **OK**.

6. Select **Initio inic1620 S-ATA Adapter (D:\Vista64\1620.inf) (x64)**, click **Next**, then click **OK**.

7. Repeat steps 2-4, then continue to step #8.

8. Hightlight **Vista32** folder, then click **OK**.

9. Select **Initio inic1620 S-ATA Adapter (D:\Vista32\1620.inf)**, click **Next**, then click **OK**.

10. Follow on-screen instructions to complete Windows Vista installation.

Existing Windows 2008 Installation

1. Install the board and boot up Windows.
2. At the **Found New Hardware Wizard**, insert the driver CD, select **Locate and install driver software (Recommended)**, then click **Don't search online.**
3. Click **I don't have the disc. Show me other options**.
4. Click **Browse my computer for driver software (Advanced)**.
5. Type in **D:\Vista64,** (change D: to match your CD-ROM drive letter), then click **Next**.
6. Click **Install this driver software anyway**, then click **Close**.
7. Remove the driver CD and restart Windows to complete the installation.

To Verify Windows Server 2008 Installation

1. Right click **Computer,** click **Manage**, double click **Diagnostics**, click **Device Manager**.
2. Double click **Storage controllers**, then double click **Initio INIC1620 S-ATA Adapter**.
4. A message *This device is working properly* is displayed, the driver has been correctly installed.

BIOS Configuration

The *SATA II-150 PCI* BIOS will appear everytime your system starts up. If the BIOS doesn't show, please try your controller in another PCI slot. During this **(Post)** process, the BIOS will show up and indicate the devices attached to it.

Technical Support and Warranty

QUESTIONS? SIIG's **Online Support** has answers! Simply visit our web site at *www.siig.com* and click **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and a technical support analysts will promptly respond.

SIIG offers a lifetime manufacturer warranty with this product. Please see our web site for more warranty details. If you encounter any problems with this product, please follow the procedures below.

A) If it is within the store's return policy period, please return the product to the store where you purchased from.

B) If your purchase has passed the store's return policy period, please follow these steps to have the product repaired or replaced.

> **Step 1:** Submit your RMA request.
>
> Go to **www.siig.com**, click **Support**, then **RMA** to submit a request to SIIG RMA. If the product is determined to be defective, an RMA number will be issued.

> **Step 2:** After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All software, cable(s) and any other accessories that came with the original package must be included.

- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.

- You are responsible for the cost of shipping. Ship the product to the following address:

  SIIG, Inc.
  6078 Stewart Avenue
  Fremont, CA 94538-3152, USA
  RMA #: _____

- SIIG will ship the repaired or replaced product via Ground in the U.S. and International Economy outside of the U.S. at no cost to the customer.

About SIIG, Inc.

Founded in 1985, SIIG, Inc. is a leading computer upgrade manufacturer of I/O connectivity products, including PCI & ISA serial and parallel ports, USB, Serial ATA & UltraATA controllers, FireWire (1394a/b), networking, sound cards, and other accessories. SIIG is the premier one-stop source of upgrades.

SIIG products offer comprehensive user manuals, many user-friendly features, and are backed by an extensive manufacturer warranty. High-quality control standards are evident by the overall ease of installation and compatibility of our products, as well as one of the lowest defective return rates in the industry. SIIG products can be found in computer retail stores, mail order catalogs, through major distributors, system integrators, and VARs in the Americas and the UK, and through e-commerce sites.

PRODUCT NAME
SATA II-150 PCI

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS B OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

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