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> [Monoprice 4 Port SATA PCI RAID Controller Card \(Model 102667\) User Manual](#)

## Monoprice 102667

# Monoprice 4 Port SATA PCI RAID Controller Card

Model: 102667

Brand: Monoprice

## PRODUCT OVERVIEW

The Monoprice 4 Port SATA PCI RAID Controller Card (Model 102667) is designed to add four independent SATA-I ports to a PCI-equipped computer. This adapter card supports an optional software RAID configuration for enhanced data management. It provides four SATA-I (1.5 Gbps) ports, allowing the use of newer SATA drives in systems with available PCI slots. The card utilizes the Silicon Image SIL3114 chipset and is compatible with a 32-bit 66 MHz PCI bus.

### Key Features:

- Adds four independent SATA-I (1.5 Gbps) ports.
- Supports optional software RAID 0, RAID 1, and RAID 0+1 configurations.
- Utilizes the Silicon Image SIL3114 chipset.
- Compatible with 32-bit 66 MHz PCI bus.

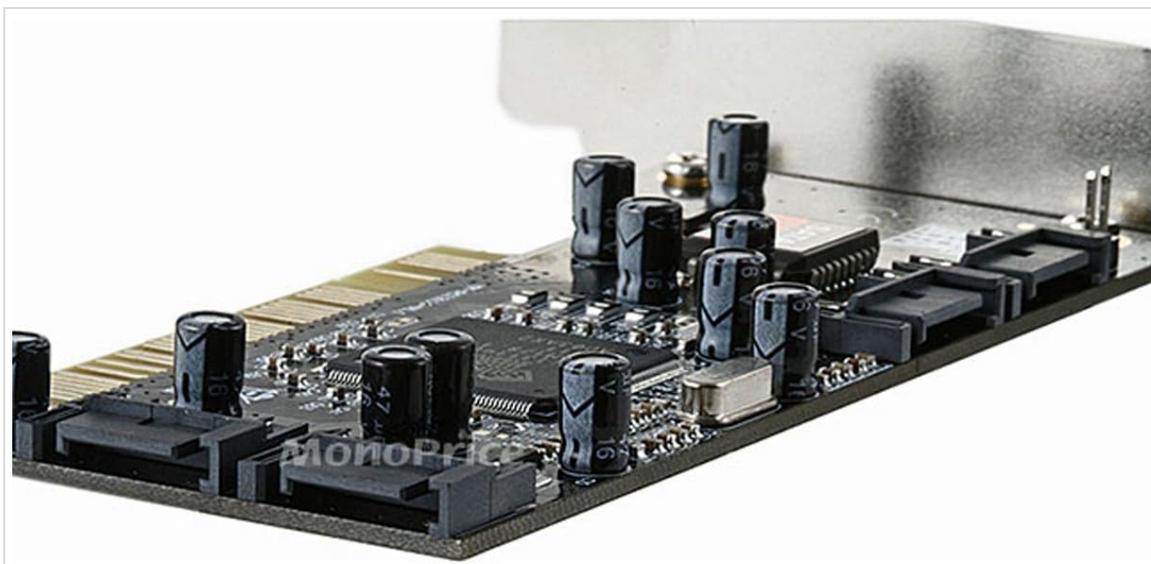


Image: Top view of the Monoprice 4 Port SATA PCI RAID Controller Card, showing the PCI connector, SATA ports, and main components.

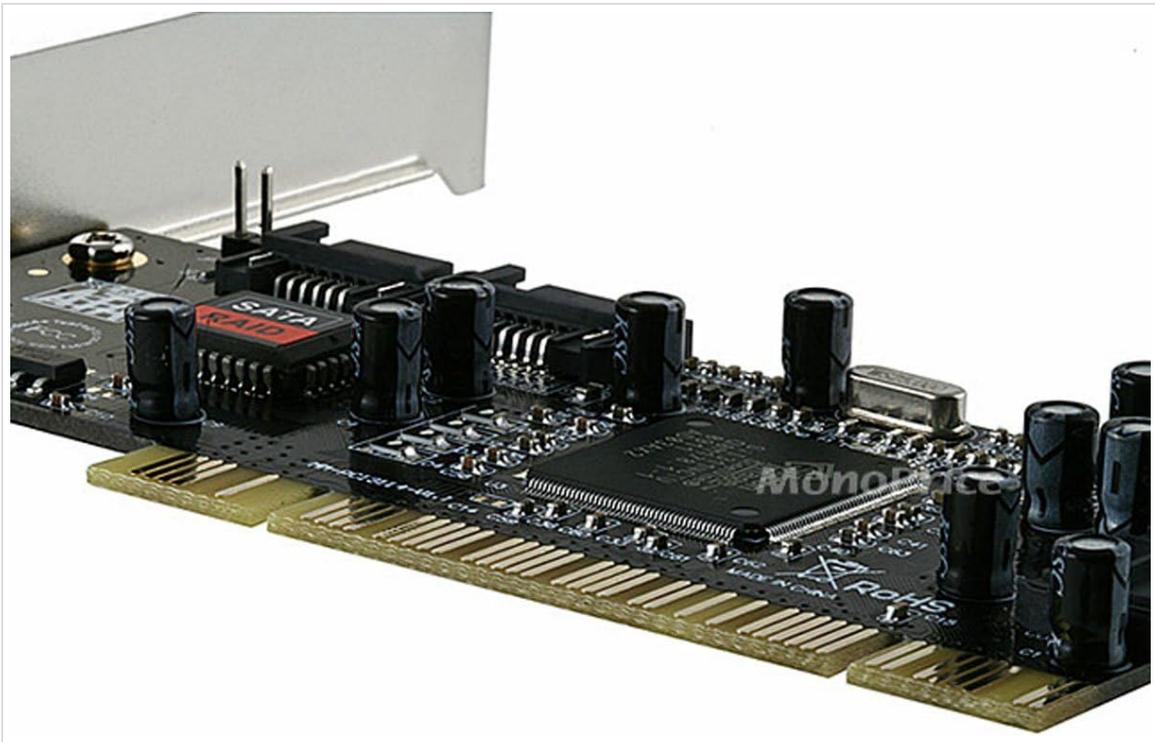


Image: Close-up view of the Silicon Image SIL3114 chipset, the primary controller for the card's functionality.

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## PACKAGE CONTENTS

Verify that all items are present in the package:

- Monoprice 4 Port SATA PCI RAID Controller Card
- Driver CD (may be included, or drivers can be downloaded)
- Quick Installation Guide (if applicable)

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## SYSTEM REQUIREMENTS

- Available 32-bit PCI slot
- Compatible operating system (e.g., Windows, Linux)
- SATA hard drives or optical drives
- SATA data cables (not always included with card)

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## SETUP AND INSTALLATION

### 1. Hardware Installation

1. **Power Off:** Shut down your computer and disconnect the power cord.
2. **Open Case:** Open your computer's chassis to access the motherboard.
3. **Locate PCI Slot:** Identify an available PCI expansion slot on your motherboard.
4. **Insert Card:** Carefully align the controller card with the PCI slot and press firmly until it is

securely seated.

5. **Secure Card:** Use a screw or retention clip to secure the card to the computer chassis.
6. **Connect SATA Drives:** Connect your SATA hard drives or optical drives to the SATA ports on the controller card using SATA data cables. Ensure drives are also connected to a power supply.
7. **Close Case & Power On:** Close the computer case, reconnect the power cord, and power on the computer.

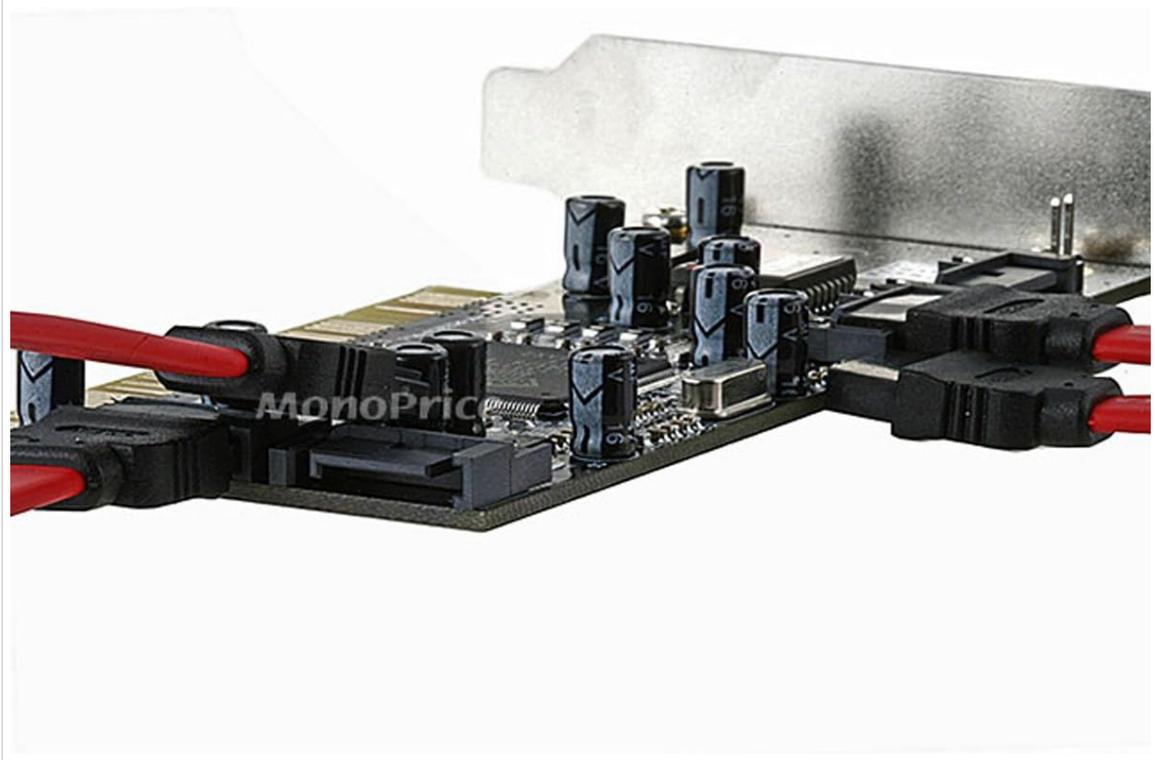


Image: The controller card with SATA data cables connected to its four ports, demonstrating proper connection.

## 2. Driver Installation

After hardware installation, the operating system may require drivers for the card to function correctly. Drivers are typically provided on a CD or can be downloaded from the Monoprice or Silicon Image website. Follow the on-screen instructions for driver installation. For Windows installations, you may need to provide the driver during the operating system setup if installing to a drive connected to this card.

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## OPERATING INSTRUCTIONS (RAID CONFIGURATION)

This card supports optional software RAID configurations. To access the RAID utility, typically press **CTRL-S** or **F4** during the system boot process when prompted by the card's BIOS. The utility allows you to configure RAID arrays.

### RAID 0 (Striping)

RAID 0 combines two or more drives into a single logical unit, distributing data across them. This configuration improves performance but offers no data redundancy. If one drive fails, all data in the array is lost.

### RAID 1 (Mirroring)

RAID 1 duplicates data across two drives. This provides data redundancy; if one drive fails, the data is still accessible from the other drive. Performance may be slightly improved for reads but can be slower for writes.

## **RAID 0+1 (Striping and Mirroring)**

RAID 0+1 (or RAID 10) combines striping and mirroring. It requires at least four drives. Data is striped across two pairs of drives, and each pair is mirrored. This configuration offers both performance benefits and data redundancy.

Refer to the RAID utility's on-screen instructions for detailed steps on creating, managing, and rebuilding RAID arrays. It is recommended to back up all data before configuring or modifying RAID settings.

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## **MAINTENANCE**

- **Keep Clean:** Ensure the computer's interior, especially around the card, is free of dust to maintain proper airflow and prevent overheating.
  - **Firm Connections:** Periodically check that all SATA data and power cables are securely connected to the card and drives.
  - **Driver Updates:** Check the Monoprice or Silicon Image website for updated drivers, which may offer improved compatibility or performance.
  - **RAID Monitoring:** For RAID configurations, regularly check the status of your array through the RAID utility during boot-up to ensure all drives are functioning correctly and the array is not degraded.
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## **TROUBLESHOOTING**

### **Card not detected by system:**

Ensure the card is fully seated in the PCI slot. Try a different PCI slot if available. Verify that your motherboard's BIOS recognizes the PCI slot.

### **Connected drives not detected:**

Check all SATA data and power cable connections to the drives and the card. Ensure drivers for the controller card are correctly installed in your operating system. Verify that the drives themselves are functional.

### **RAID array degraded or failed:**

Access the RAID utility during boot-up. Identify the faulty drive and replace it. Follow the utility's instructions to rebuild the RAID array. Ensure you have backups of critical data.

### **"NO AHCI" warning during boot:**

This message is common for some older PCI SATA controllers that do not support AHCI (Advanced Host Controller Interface). It typically does not indicate a fault and will not prevent the card from functioning, though it may cause a slight delay during system startup.

### **System instability or crashes:**

Ensure the card is properly installed and secured. Verify that the correct and latest drivers are installed. Check for conflicts with other PCI devices in your system.

For further assistance, consult the official Monoprice support resources or the Silicon Image website

for chipset-specific information and drivers.

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## SPECIFICATIONS

- **Brand:** Monoprice
  - **Model Number:** 102667
  - **Hardware Interface:** PCI
  - **Chipset:** Silicon Image SIL3114
  - **Number of Ports:** 4 x SATA-I
  - **Data Transfer Rate:** Up to 1.5 Gbps (SATA-I)
  - **RAID Support:** RAID 0, RAID 1, RAID 0+1 (software RAID)
  - **Compatible Devices:** Personal Computer
  - **Item Weight:** Approximately 0.3 Pounds
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## WARRANTY AND SUPPORT

This Monoprice product is covered by the manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Monoprice website. For technical support, driver downloads, or further inquiries, please contact Monoprice customer service or visit their support portal.