

HP 377597-001

HP 377597-001 PCI 6-Port SATA RAID Controller Instruction Manual

Model: 377597-001

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your HP 377597-001 PCI 6-Port SATA RAID Controller. Please read these instructions carefully before proceeding with installation to ensure optimal performance and system stability. Retain this manual for future reference.

2. PRODUCT OVERVIEW

The HP 377597-001 is an internal PCI SATA RAID Controller designed to enhance storage capabilities and data redundancy in compatible systems. It features 6 SATA ports, allowing for the connection of multiple SATA drives to create various RAID configurations. This controller is an original and authentic HP component, guaranteed to be fully functional.



Image 1: Front view of the HP 377597-001 PCI 6-Port SATA RAID Controller. This image displays the physical card with its various components, including the PCI connector and multiple SATA ports.

3. SETUP

3.1 Compatibility Check

Before installation, ensure that your system's motherboard has an available PCI slot and that it is compatible with the HP 377597-001 controller. Verify that your original part number matches exactly, or consult your system's documentation for compatibility information. Customers are responsible for ensuring compatibility.

3.2 Hardware Installation

1. **Power Off:** Completely shut down your computer and disconnect the power cable from the power supply unit.
2. **Open Case:** Open the computer case to access the motherboard.
3. **Locate PCI Slot:** Identify an available PCI expansion slot on your motherboard.
4. **Insert Controller:** Carefully align the HP 377597-001 controller with the PCI slot and press firmly until it is securely seated. Ensure the retention clip or screw is fastened.
5. **Connect SATA Drives:** Connect your SATA hard drives or solid-state drives to the available SATA ports on the controller using appropriate SATA data cables. If using multiple drives for RAID, ensure they are of the same type and capacity for optimal performance.
6. **Close Case:** Close the computer case and reconnect the power cable.

3.3 Driver Installation

Upon first boot after hardware installation, your operating system may automatically detect and install generic drivers. For optimal performance and full functionality, it is recommended to download and install the latest drivers for the HP 377597-001 controller from the official HP support website. Follow the on-screen instructions provided by the driver installer.

4. OPERATING INSTRUCTIONS

4.1 RAID Configuration

After driver installation, you may need to configure RAID settings. This typically involves accessing the controller's BIOS or a dedicated utility during system startup (often by pressing a specific key like F2, F8, F10, or Ctrl+I when prompted). Refer to your system's motherboard manual or the controller's specific documentation (if available from HP) for detailed steps on creating, managing, and deleting RAID arrays (e.g., RAID 0, RAID 1, RAID 5).

4.2 Drive Management

Once configured, the RAID array or individual drives connected to the controller will appear as storage devices within your operating system. You can then format, partition, and manage them as you would any other storage device.

5. MAINTENANCE

- **Keep Clean:** Periodically inspect the controller card for dust accumulation. Use compressed air to gently clean the card and surrounding components to ensure proper airflow and prevent overheating.
- **Firmware Updates:** Check the official HP support website for any available firmware updates for the 377597-001 controller. Firmware updates can improve performance, stability, and compatibility. Follow HP's instructions carefully when performing firmware updates.
- **Cable Connections:** Ensure all SATA data and power cables remain securely connected to the drives and the controller. Loose connections can lead to data corruption or drive detection issues.

6. TROUBLESHOOTING

- **Controller Not Detected:**
 - Ensure the controller is fully seated in the PCI slot.
 - Try a different PCI slot if available.
 - Verify that the system BIOS recognizes the PCI device.
- **Drives Not Detected:**
 - Check all SATA data and power cable connections to the drives and the controller.
 - Ensure drives are properly powered on.

- Verify that the correct drivers for the controller are installed.
- **RAID Array Failure:**
 - Consult the RAID utility or controller BIOS for status messages.
 - Identify and replace any failed drives according to the RAID configuration's recovery procedures.
 - *Always back up critical data regularly to prevent data loss.*
- **System Instability:**
 - Ensure drivers and firmware are up to date.
 - Check for conflicts with other PCI devices.
 - Verify adequate power supply to all components.

7. SPECIFICATIONS

Brand	HP
Model	377597-001
Manufacturer Part Number	377597-001
Hardware Interface	PCI
Internal Interface	SATA
Number of Ports	6
Form Factor	Internal

8. WARRANTY AND SUPPORT

This HP 377597-001 component typically comes with a 90-day warranty. Extended warranty options may be available. For specific warranty details, claims, or technical support, please refer to the official HP support channels or the vendor from whom the product was purchased. Ensure you have your product model number and any relevant purchase information ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question