

Syba SD-PEX50064

SYBA SD-PEX50064 Instruction Manual

Model: SD-PEX50064

Brand: Syba

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the SYBA SD-PEX50064 PCIe x1 expansion card. This card is designed to add four USB 3.0 ports and two SATA III ports to your desktop computer, enhancing its connectivity and storage capabilities.

The SYBA SD-PEX50064 utilizes VLI VL805 and ASMedia 1061 chipsets, ensuring reliable performance for both USB 3.0 and SATA III functionalities. It is compliant with PCI Express 2.0 and offers backward compatibility with PCI Express 1.0a.

2. KEY FEATURES

- **PCI Express 2.0 Interface:** Ensures high-speed data transfer and compatibility with modern motherboards. Backward compatible with PCIe 1.0a.
- **4x USB 3.0 Ports:** Provides Super-Speed (5Gbps) connectivity for USB 3.0 devices, with backward compatibility for USB 2.0 (480 Mbps), Full Speed (12 Mbps), and Low Speed (1.5 Mbps).
- **2x SATA III Ports:** Supports communication speeds of 6.0Gbps, 3.0Gbps, and 1.5Gbps, compatible with SATA I, II, and III hard drives and SSDs.
- **VLI VL805 & ASMedia 1061 Chipsets:** Dedicated chipsets for robust USB and SATA performance.
- **USB Transfer Types:** Supports Control, Bulk, Interrupt, and Isochronous transfer types, along with Bulk Only Transfer (BOT) and USB Attached SCSI Protocol (UASP) modes.
- **SATA Features:** Supports Gen1M and Gen2m SATA PHY, Native Command Queue (NCQ), SATA Port Multiplier, and Hot-Plug functionality.
- **Power Supply:** Includes an internal HDD power connector for supplying +5V power to the USB ports.
- **Activity LED:** Features a hard drive activity LED for monitoring SATA drive status.
- **Included Brackets:** Comes with both standard and low-profile brackets for versatile installation in various PC cases.

3. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, please contact your retailer.

- SYBA SD-PEX50064 PCIe x1 Card
- Standard Profile Bracket (pre-installed)
- Low Profile Bracket
- Driver CD (or link to driver download)
- User Manual (this document)

4. SETUP AND INSTALLATION

Before proceeding with the installation, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to your components.

4.1 System Requirements

- Available PCI Express x1, x4, x8, or x16 slot
- Windows XP/Vista/7/8/10 (32/64-bit) or Linux operating system
- Minimum 2GB RAM
- CD-ROM drive (for driver installation, if not downloading)

4.2 Hardware Installation

1. **Prepare Your Computer:** Power off your computer and unplug the power cord. Open the computer case.
2. **Locate an Available PCIe Slot:** Identify an empty PCI Express x1 slot (or larger, such as x4, x8, x16) on your motherboard. Remove the metal slot cover from the back of the computer case corresponding to the chosen slot.
3. **Install the Card:** Carefully align the SYBA SD-PEX50064 card with the chosen PCIe slot. Apply even pressure to both ends of the card until it is fully seated in the slot. Ensure the bracket is flush with the back of the case.
4. **Secure the Card:** Secure the card's bracket to the computer case using the screw or latch mechanism provided by your case.
5. **Connect Power (Optional but Recommended for USB):** Locate a spare SATA power connector from your power supply and connect it to the internal HDD power connector on the SYBA SD-PEX50064 card. This provides stable power to the USB ports, especially for high-power USB devices.
6. **Close Case and Power On:** Close your computer case, plug in the power cord, and power on your computer.

4.3 Driver Installation

Upon booting, your operating system may automatically detect and install generic drivers. However, for optimal performance and full functionality, it is highly recommended to install the latest drivers from Syba's official website or the provided driver CD.

1. **Download Drivers:** Visit the official Syba website (e.g., www.sybausa.com) and navigate to the support or download section. Search for model SD-PEX50064 and download the latest drivers for your operating system. Alternatively, insert the provided driver CD into your CD-ROM drive.
2. **Run Installer:** Locate the downloaded driver file (usually an executable .exe file) or the setup file on the CD and run it.
3. **Follow On-Screen Instructions:** Follow the prompts of the driver installation wizard. You may need to restart your computer after the installation is complete.

4. **Verify Installation:** After restarting, open Device Manager (Windows: Right-click My Computer/This PC > Manage > Device Manager). Look for "Universal Serial Bus controllers" and "Storage controllers." You should see entries for the VLI USB 3.0 eXtensible Host Controller and ASMedia SATA Controller, indicating successful driver installation.

5. OPERATION

Once the SYBA SD-PEX50064 card is successfully installed and drivers are in place, you can begin using its expanded connectivity.

5.1 Using USB 3.0 Ports

- Connect your USB 3.0 compatible devices (e.g., external hard drives, flash drives, cameras) to any of the four blue USB 3.0 ports on the card's rear bracket.
- For optimal performance, ensure your USB devices and cables are USB 3.0 compliant. USB 2.0 and 1.1 devices are backward compatible but will operate at their respective lower speeds.
- The internal power connector ensures sufficient power for high-power USB devices.

5.2 Using SATA III Ports

- Connect your SATA I/II/III compatible hard drives or SSDs to the two internal SATA III ports on the card using standard SATA data cables.
- Ensure your SATA drives are also connected to your power supply unit for power.
- New drives may need to be initialized and formatted through Disk Management (Windows) or a similar utility in your operating system before they can be used.
- The card supports SATA Hot-Plug, allowing you to connect or disconnect SATA drives while the system is running, provided your operating system and drive enclosure support this feature. Always safely remove hardware before disconnecting.
- Monitor the hard drive activity LED on the card for data transfer activity.

6. MAINTENANCE

The SYBA SD-PEX50064 card requires minimal maintenance. Follow these general guidelines to ensure its longevity and optimal performance:

- **Keep Drivers Updated:** Periodically check the Syba website for updated drivers. Newer drivers can improve performance, stability, and compatibility.
- **Maintain Airflow:** Ensure good airflow within your computer case to prevent overheating of internal components, including the PCIe card.
- **Keep Clean:** If you open your computer case for other maintenance, gently clean any dust accumulation on the card using compressed air. Do not use liquids.
- **Secure Connections:** Periodically check that the card is securely seated in its PCIe slot and that all connected cables (USB, SATA, power) are firmly attached.

7. TROUBLESHOOTING

If you encounter issues with your SYBA SD-PEX50064 card, refer to the following common problems and solutions:

7.1 Card Not Detected by System

- **Check Seating:** Ensure the card is fully and correctly seated in the PCIe slot. Remove and re-insert it firmly.
- **Try Another Slot:** If available, try installing the card in a different PCIe x1 (or larger) slot on your motherboard.
- **Check BIOS/UEFI:** Ensure the PCIe slot is enabled in your system's BIOS/UEFI settings.
- **Power Supply:** Verify your power supply unit (PSU) has sufficient wattage for all components, including the new card.

7.2 USB Devices Not Working or Slow

- **Driver Installation:** Confirm that the correct VLI USB 3.0 drivers are installed and up to date in Device Manager.
- **Power Connection:** Ensure the internal SATA power connector on the card is connected to your PSU. This is crucial for stable USB power.
- **USB Cable/Device:** Test with different USB devices and cables to rule out faulty peripherals.
- **USB 3.0 vs. 2.0:** Remember that USB 2.0 devices will operate at USB 2.0 speeds, even when connected to a USB 3.0 port.

7.3 SATA Drives Not Recognized

- **Driver Installation:** Verify that the ASMedia SATA drivers are correctly installed and updated in Device Manager.
- **SATA Cables:** Ensure SATA data cables are securely connected to both the card and the hard drive/SSD. Try different SATA cables.
- **Drive Power:** Confirm that the SATA hard drive/SSD is receiving power from your PSU.
- **Disk Management (Windows):** For new drives, check Disk Management to see if the drive is detected but needs to be initialized, partitioned, or formatted.
- **BIOS/UEFI SATA Mode:** Ensure your motherboard's BIOS/UEFI SATA mode is set to AHCI for optimal performance and compatibility with the add-in card.

8. SPECIFICATIONS



Image: The SYBA SD-PEX50064 PCIe expansion card, featuring four USB 3.0 ports and two SATA III ports. The card is green with various electronic components and a silver mounting bracket.

Feature	Description
Model Number	SD-PEX50064

Feature	Description
Chipsets	VLI VL805 & ASMedia 1061
Interface	PCI Express 2.0 x1 (Backward Compatible with PCIe 1.0a)
USB Ports	4x USB 3.0 Type-A (External)
USB Transfer Rates	Super-Speed (5Gbps), High Speed (480 Mbps), Full Speed (12 Mbps), Low Speed (1.5 Mbps)
USB Compatibility	Backward compatible with USB 2.0/1.1
SATA Ports	2x SATA III (Internal)
SATA Transfer Rates	6.0Gbps, 3.0Gbps, 1.5Gbps
SATA Compatibility	Compatible with SATA I, SATA II, SATA III HDDs and SSDs
Power Connector	1x Internal SATA Power Connector (+5V for USB)
Operating System Support	Windows XP/Vista/7/8/10 (32/64-bit), Linux
Dimensions	Standard PCIe card size (approx. 120mm x 68mm)
Weight	Approximately 907.18 g (2 Pounds)

9. WARRANTY AND SUPPORT

Syba products typically come with a limited manufacturer's warranty. Please refer to the warranty information included with your product packaging or visit the official Syba website for detailed warranty terms and conditions. For technical support, driver downloads, or further assistance, please visit the Syba support page or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Syba Official Website: www.sybausa.com

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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