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MZHOU B099Z7SYDX

MZHOU PCIe SATA Card 8 Port Instruction Manual

Model: B099Z7SYDX

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and troubleshooting of your MZHOU PCIe SATA Card 8 Port. This expansion card allows you to add eight SATA 3.0 6Gbps ports to your computer, enhancing storage connectivity.



Image 1.1: MZHOU PCIe SATA Card 8 Port with included accessories.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1x MZHOU 8-Port SATA 3.0 Controller Card
- 8x SATA Data Cables
- 1x Low Profile Bracket
- 1x Driver Disc (Mini CD)

Image 2.1: Contents included in the product package.

3. SPECIFICATIONS

Feature	Specification
Brand	MZHOU

Model Number	B099Z7SYDX
Hardware Interface	PCI Express x1 (Compatible with x4, x8, x16 slots)
SATA Ports	8
Data Transfer Rate	Up to 6Gbps (SATA 3.0)
Chipset	ASMedia ASM1064 + JMB5XX
Operating System Compatibility	Windows (8/10), Ubuntu (Windows 7 requires driver installation)
Dimensions (Card)	Approx. 12cm (Length) x 9.7cm (Height)
Low Profile Bracket Height	Approx. 8cm

Image 3.1: Physical dimensions of the card and low profile bracket.

Image 3.2: Data transfer speed comparison for different SATA versions.

4. SETUP AND INSTALLATION

4.1 System Requirements

- An available PCI Express x1, x4, x8, or x16 slot on your motherboard.
- Compatible operating system (Windows 8/10, Ubuntu).

4.2 Hardware Installation

1. **Power Off:** Completely power down your computer and disconnect the power cable from the wall outlet.
2. **Open Case:** Open your computer case to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCIe slot (x1, x4, x8, or x16).
4. **Bracket Adjustment (Optional):** If installing into a slim PC case, remove the standard height bracket from the card and attach the included low profile bracket.
5. **Insert Card:** Carefully align the card with the chosen PCIe slot and press it firmly into place until it is fully seated.
6. **Secure Card:** Secure the card to the computer case with a screw.
7. **Connect SATA Devices:** Connect your SATA storage devices (HDDs, SSDs) to the SATA ports on the expansion card using the provided SATA data cables.
8. **Close Case & Power On:** Close your computer case, reconnect the power cable, and power on your computer.

Image 4.1: Key components of the MZHOU PCIe SATA Card.

Image 4.2: PCIe slot compatibility.

4.3 Driver Installation

- **Windows 8/10 & Ubuntu:** The operating system may automatically detect and install the necessary drivers.
- **Windows 7 or Manual Installation:** If drivers are not automatically installed, or for Windows 7, use the provided driver disc (mini CD). Insert the disc into an optical drive and follow the on-screen instructions to install the drivers.
- **No Optical Drive:** If your system lacks an optical drive, you may need to obtain the drivers from the manufacturer's official website.

5. OPERATING INSTRUCTIONS

Once the card is physically installed and drivers are successfully loaded, your operating system should recognize the connected SATA storage devices. You can then format, partition, and use these drives as needed.

- **Device Recognition:** The connected SATA devices will appear in your operating system's Disk Management (Windows) or equivalent utility (Ubuntu).
- **Hot Swap Support:** The card supports hot-swap functionality, allowing you to connect or disconnect SATA devices while the system is running, provided your operating system and device support it.
- **Performance:** Each port supports SATA 3.0 speeds up to 6Gbps. Actual data transfer rates depend on the capabilities of the connected storage device and the overall system performance.

Image 5.1: Card installed with SATA cables and OS compatibility.

Image 5.2: Multi-system compatibility overview.

6. MAINTENANCE

To ensure optimal performance and longevity of your MZHOU PCIe SATA Card:

- **Airflow:** Ensure adequate airflow within your computer case to assist the integrated heat sink in dissipating heat from the chipset.
- **Cleanliness:** Periodically clean dust accumulation from the card and surrounding components using compressed air. Ensure the computer is powered off and unplugged before cleaning.

7. TROUBLESHOOTING

7.1 Card Not Detected / PC Fails to Boot

- **Reseat Card:** Power off your PC, disconnect power, and ensure the PCIe card is fully and securely seated in its slot.
- **Try Different Slot:** Test the card in another available PCIe slot on your motherboard.
- **BIOS/UEFI Settings:** Access your motherboard's BIOS/UEFI settings. Some motherboards may require the PCIe slot mode to be manually set (e.g., GEN1, GEN2, or GEN3) instead of 'Auto'.
- **AHCI/IDE Mode:** For older motherboards, try switching the SATA controller mode in BIOS from AHCI to IDE, if applicable.
- **Minimal Connection:** Initially, try booting with only one SATA device connected to the card.

7.2 Devices Not Recognized / Only Some Devices Show

- **Driver Installation:** Ensure the correct drivers are installed. Use the provided driver disc or download from the manufacturer's website.
- **Cable Connections:** Verify that all SATA data cables are securely connected to both the card and the storage devices.
- **Port Numbering:** Be aware that the physical port labels (SATA1-SATA8) on the card may not always correspond directly to the enumeration in the BIOS or operating system. If issues persist, test each port individually.

7.3 Slow Data Transfer Speeds

- **Device Performance:** Data transfer speed is primarily limited by the performance of the connected storage device (HDD/SSD) and the overall system.
- **Driver Check:** Ensure the latest and correct drivers are installed for the SATA card.

8. WARRANTY INFORMATION

Specific warranty terms and conditions for the MZHOU PCIe SATA Card 8 Port are typically provided by the retailer or manufacturer at the time of purchase. Please refer to your purchase documentation or contact the seller directly for detailed warranty information.

9. SUPPORT

For further assistance or technical support, please visit the official MZHOU website or contact their customer service department. Ensure you have your product model number (B099Z7SYDX) and purchase details available when seeking support.