MZHOU Mzhou-7 usb

MZHOU 7-Port USB 3.0 PCIe Expansion Card with Front Panel Connector (Model Mzhou-7 usb)

User Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and troubleshooting of the MZHOU 7-Port USB 3.0 PCIe Expansion Card. It details the card's features, specifications, and compatibility, ensuring users can effectively integrate and utilize the additional USB 3.0 ports for enhanced connectivity and data transfer speeds. The MZHOU USB 3.0 PCIe Expansion Card adds multiple SuperSpeed USB 3.0 ports to your desktop computer, including both rear panel and front panel connectivity. This allows for faster data transfer rates and expanded peripheral support.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1 x MZHOU 7-Port USB 3.0 PCIe Expansion Card
- 1 x USB 3.0 Front Panel Connector (with 2 USB 3.0 ports)
- 1 x SATA 15-pin to 4-pin power cable
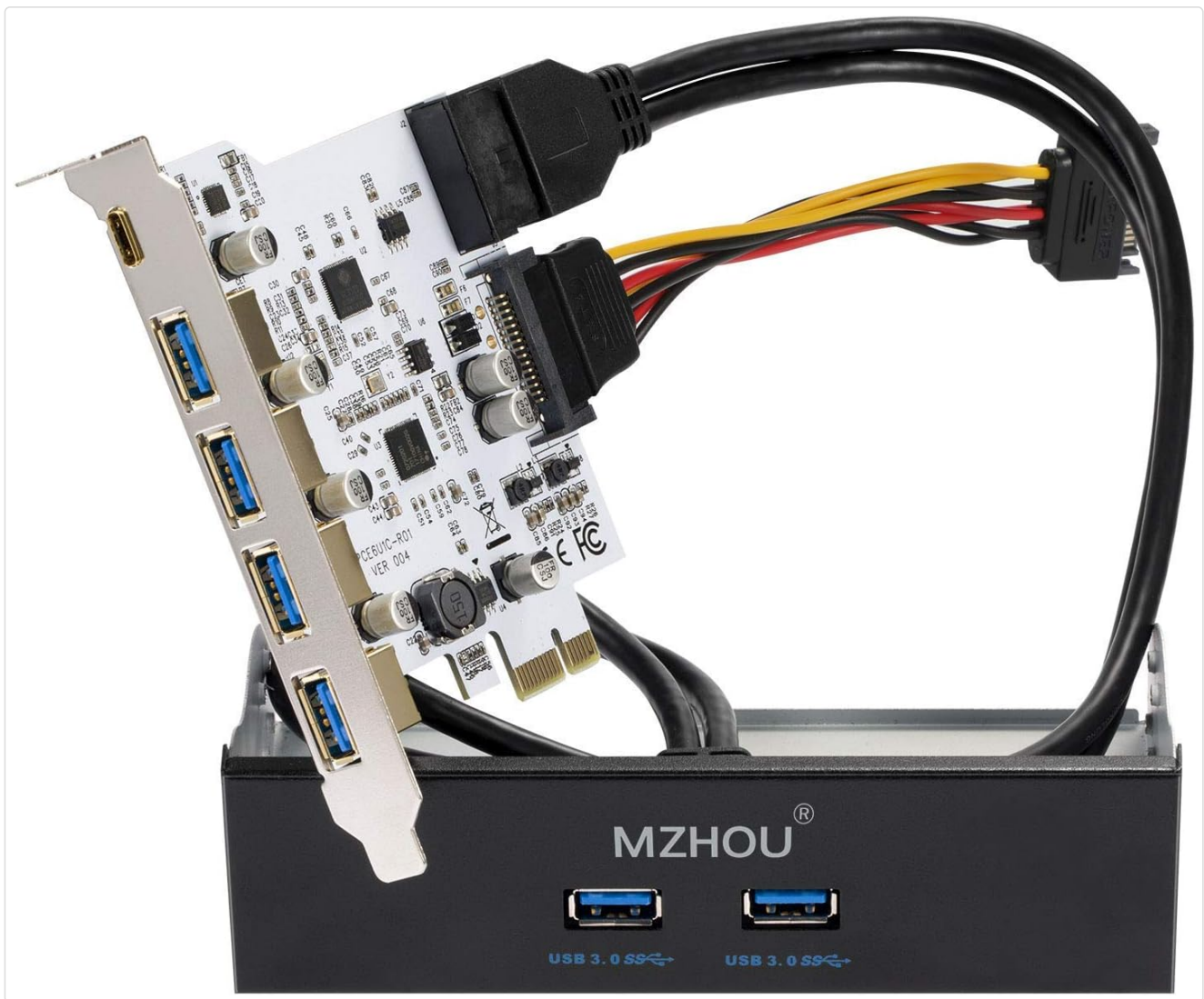- 1 x Driver CD (for older Windows versions)
- Mounting Screws

Figure 1: MZHOU 7-Port USB 3.0 PCIe Expansion Card with included front panel connector and cables.

3. Setup and Installation

Before proceeding, 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 components.

3.1 System Requirements

- Available PCI Express (PCI-E) x1, x2, x4, x8, or x16 slot.
- Available SATA power connector from your power supply.
- Standard tower case (not compatible with mini-PCs).
- Operating System: Windows XP/Vista/7 (driver required), Windows 8/8.1/10 (no driver required), Linux Kernel 2.4 & 2.6.
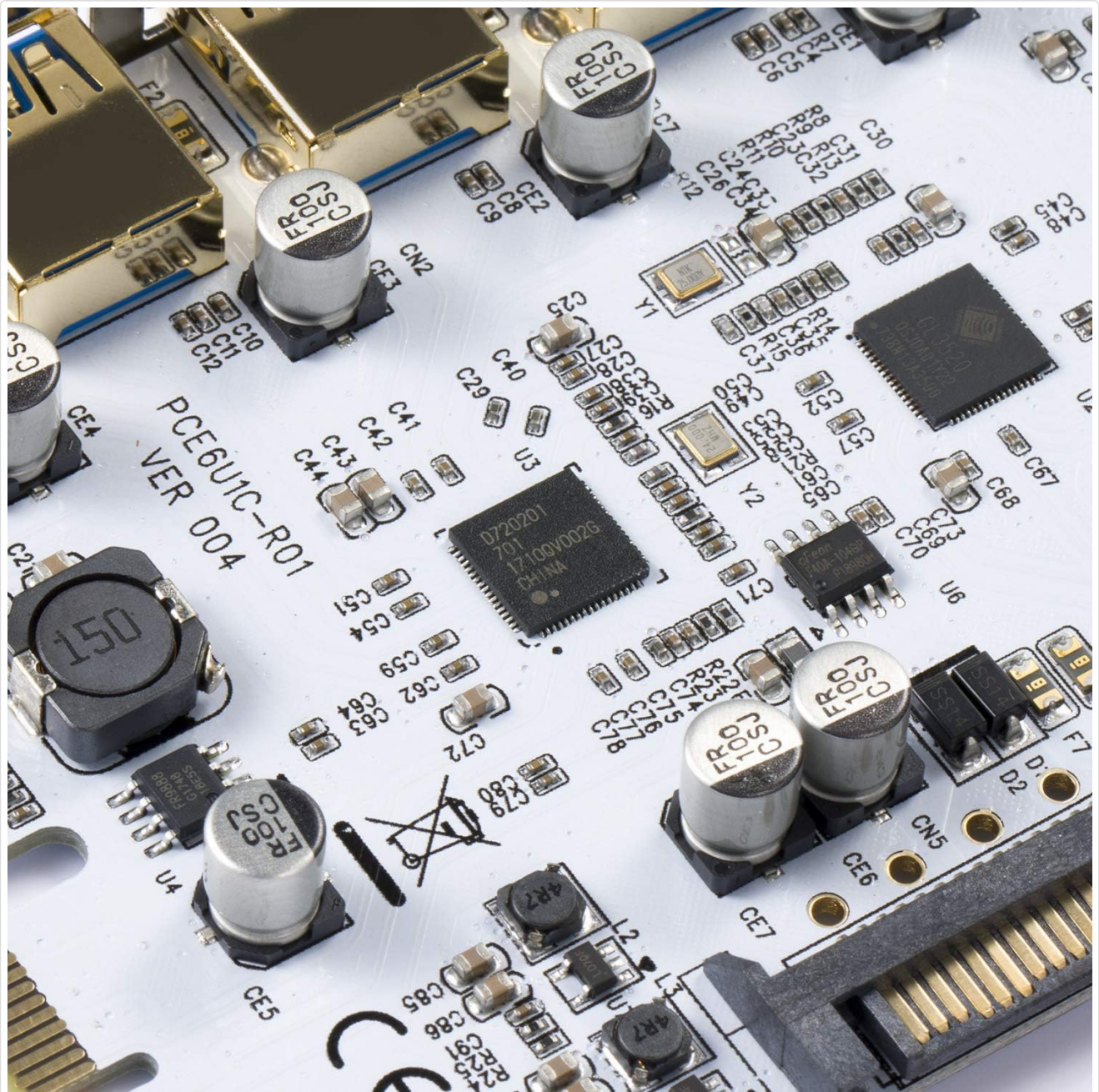
Figure 2: Overview of compatible operating systems, including Windows and Linux.

3.2 Hardware Installation

1. **Open Computer Case:** Remove the side panel of your computer case to access the motherboard.

2. **Locate PCIe Slot:** Identify an available PCI Express slot (x1, x2, x4, x8, or x16).

3. **Insert PCIe Card:** Carefully align the MZHOU USB 3.0 PCIe card with the chosen slot and press firmly until it is securely seated.

4. **Secure Card:** Use a screw to secure the metal bracket of the PCIe card to the computer case.

5. **Connect Power:** Connect the provided SATA 15-pin power cable from your power supply to the SATA power connector on the PCIe card. This is crucial for stable operation, especially with multiple connected devices or high-power USB devices.

6. **Install Front Panel (Optional):** If using the front panel connector, install it into an available 3.5-inch or 5.25-inch drive bay (adapter may be required for 5.25-inch). Connect the internal USB 3.0 header cable from the front panel to the corresponding header on the PCIe card.

Figure 3: The MZHOU USB 3.0 PCIe card correctly installed in a PCI Express slot on a motherboard.

Figure 4: The MZHOU USB 3.0 front panel connector integrated into a desktop computer case.

3.3 Driver Installation

- **Windows 8/8.1/10:** No additional drivers are required. The operating system will automatically detect and install the necessary drivers.
- **Windows XP/Vista/7:** Insert the provided driver CD into your optical drive. Follow the on-screen instructions to install the drivers. If you do not have an optical drive, drivers can typically be downloaded from the MZHOU support website.
- **Linux:** Drivers are generally integrated into the Linux kernel (2.4 & 2.6 and newer). No manual installation is usually needed.

4. OPERATION

Once the card is installed and drivers (if necessary) are in place, you can begin using the new USB 3.0 ports.

- **Connecting Devices:** Simply plug your USB 3.0, USB 2.0, or USB 1.1 devices into any of the available ports on the rear of the card or the front panel.
- **Hot-Swap Functionality:** The card supports hot-swapping, allowing you to connect and disconnect USB

devices without needing to restart your computer.

- **SuperSpeed Data Transfer:** USB 3.0 offers data transfer rates up to 5 Gbps, which is significantly faster than USB 2.0 (480 Mbps). Actual speeds may vary depending on the connected device and system configuration.
- **UASP Support:** The card supports the USB Attached SCSI Protocol (UASP), which can further accelerate read and write speeds for SSDs and other UASP-enabled storage devices, providing up to 70% faster performance compared to traditional USB 3.0.
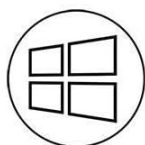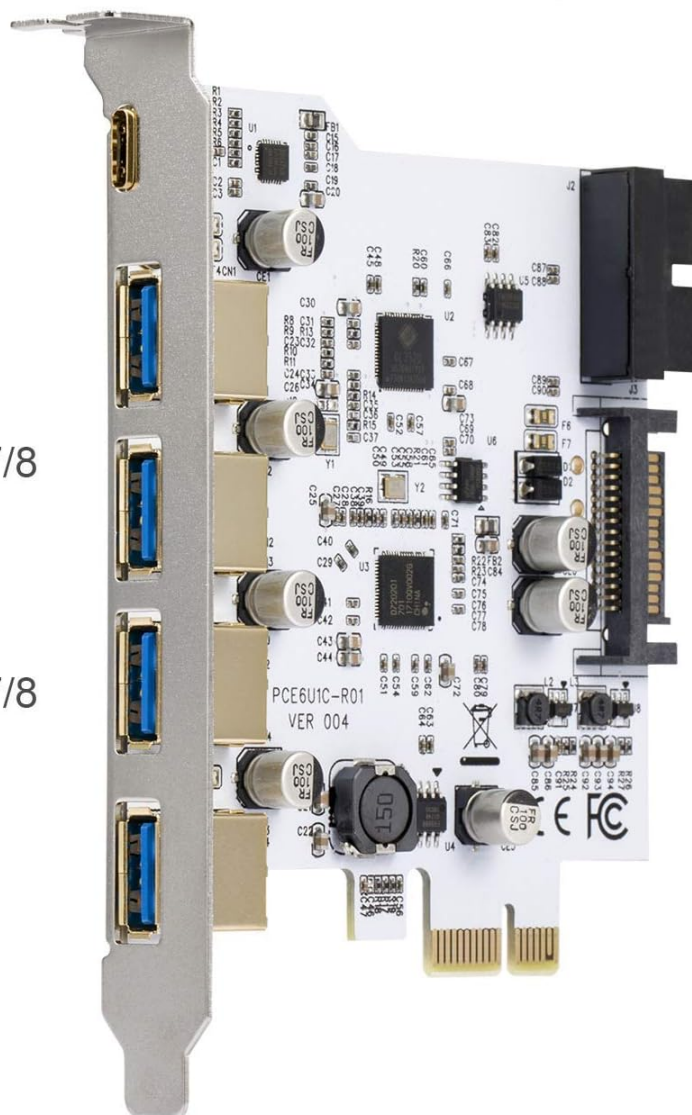

Figure 5: Visual representation of USB 3.0 (5 Gbps) versus USB 2.0 (0.48 Gbps) transfer speeds.

5. MAINTENANCE

The MZHOU USB 3.0 PCIe Expansion Card requires minimal maintenance. To ensure optimal performance and longevity:

- Keep your computer's interior clean and free of dust to prevent overheating of components.
- Ensure all cable connections (PCIe slot, power, internal USB header) remain secure.
- Regularly update your operating system to ensure the latest USB drivers and compatibility.

6. TROUBLESHOOTING

If you encounter issues with your MZHOU USB 3.0 PCIe Expansion Card, refer to the following common solutions:

Problem	Possible Cause / Solution
Card not detected or not functioning	- Ensure the card is fully seated in the PCIe slot. - Verify the SATA power cable is securely connected to both the card and the power supply. - Try installing the card in a different PCIe slot. - For Windows XP/Vista/7, ensure drivers are correctly installed. - Check Device Manager for any error codes related to USB controllers.
USB devices not recognized	- Ensure the device is properly connected to the USB port. - Test the device on another USB port or another computer to rule out device issues. - Verify that the card is receiving sufficient power via the SATA power connector. - Reinstall the card's drivers (if applicable for your OS).
Slow data transfer speeds	- Ensure you are using USB 3.0 compatible devices and cables. - Verify that the device is connected to a USB 3.0 port on the card. - Check if the UASP protocol is enabled for storage devices (if supported by your OS and device). - Ensure the card has adequate power supply connection.
System instability or crashes	- Ensure the card is fully seated and securely powered. - Verify that your power supply has sufficient wattage for all components, especially if you have many high-power USB devices. - Update your motherboard's BIOS/UEFI and chipset drivers. - Ensure the card is not conflicting with other hardware; try moving it to a different PCIe slot.

7. SPECIFICATIONS

Feature	Detail
Brand	MZHOU
Model Number	Mzhou-7 usb
Interface	PCI Express x1
External Ports	4 x USB 3.0 Type-A (on rear bracket)
Internal Header	1 x 20-pin USB 3.0 Header (supports 2 front panel USB 3.0 ports)

Feature	Detail
Total Physical USB 3.0 Ports	6 (4 rear, 2 front via header)
Data Transfer Rate	Up to 5 Gbps (SuperSpeed USB 3.0)
Power Connector	15-pin SATA Power Connector
Output Current	5V / 1A MAX per USB port
Chipset	NEC uPD720201
Compatibility	USB 3.0, USB 2.0, USB 1.1 devices
Operating Systems	Windows XP/Vista/7/8/8.1/10, Linux
Form Factor	Standard height PCIe card (not for mini-PCs)
UPC	778197602313, 779283106982

8. WARRANTY AND SUPPORT

MZHOU products are designed for reliability and performance. For specific warranty details, please refer to the documentation included with your purchase or contact MZHOU customer support.

Customer Support:

If you require technical assistance or have questions regarding your MZHOU 7-Port USB 3.0 PCIe Expansion Card, please visit the official MZHOU website or contact their customer service department through the retailer where the product was purchased.

Related Documents - Mzhou-7 usb

	[MZHOU-7 Ports PCIe to USB 3.0 Expansion Card - Instruction Manual](#) Comprehensive guide for the MZHOU-7 Ports PCIe to USB 3.0 Expansion Card, detailing product specifications, packing contents, compatibility, environmental usage, and important safety tips. Features 7 USB 3.0 ports, 5Gbps transfer speeds, and PCI-E interface.
	[MZHOU U.2 PCIe Expansion Card Instruction Manual - Enhance Your Storage](#) Detailed instruction manual for the MZHOU U.2 PCIe Expansion Card. Learn about installation, product parameters, compatibility with NVMe and SATA SSDs, and environmental guidelines for optimal performance.

	MZHOU PCI-E M.2/NGFF Card Instruction Manual - Enhance Desktop WiFi Comprehensive instruction manual for the MZHOU PCI-E M.2/NGFF Card, detailing product parameters, packing list, description, environmental usage, and important tips for installation and operation. Compatible with Intel and AMD Ryzen systems.
	MZHOU M.2 SSD NVME PCIe 3.0 x1 Adapter Card - Instruction Manual Detailed instructions for the MZHOU M.2 SSD M-Key NVME PCIe 3.0 x1 Adapter Card, covering product parameters, usage, and safety guidelines.
	MZHOU DC/DC 48V 15A MAX Voltage Converter - Instruction Manual Detailed instruction manual for the MZHOU DC/DC 48V 15A MAX voltage converter. Learn about product parameters, specifications, usage, and safety warnings for this 720W step-up transformer.