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> [JEYI PCIe 5.0 M.2 NVMe Adapter Card with Aluminum Heatsink User Manual](#)

JEYI PCIe 5.0 NVMe Heatsink

JEYI PCIe 5.0 M.2 NVMe Adapter Card with Aluminum Heatsink User Manual

Model: PCIe 5.0 NVMe Heatsink | Brand: JEYI

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the JEYI PCIe 5.0 M.2 NVMe Adapter Card with Aluminum Heatsink. This adapter is designed to expand high-speed storage capabilities in desktop, workstation, and server PCs by utilizing PCIe 5.0 slots for M.2 NVMe SSDs.

SAFETY INFORMATION

- Ensure your computer is powered off and unplugged before installation.
- Discharge any static electricity from your body before handling components.
- Handle the adapter card and SSDs with care to avoid damage to sensitive electronic components.
- Refer to your motherboard's manual for specific PCIe slot information and compatibility.

PACKAGE CONTENTS

Verify that all items are present in the package:

- JEYI PCIe 5.0 to M.2 NVMe Adapter Card
- Standard Height Bracket
- Low Profile Bracket
- Screwdriver
- Thermal Pads (3 pieces)
- Mounting Screws (8 pieces)
- Heatsink Securing Screw

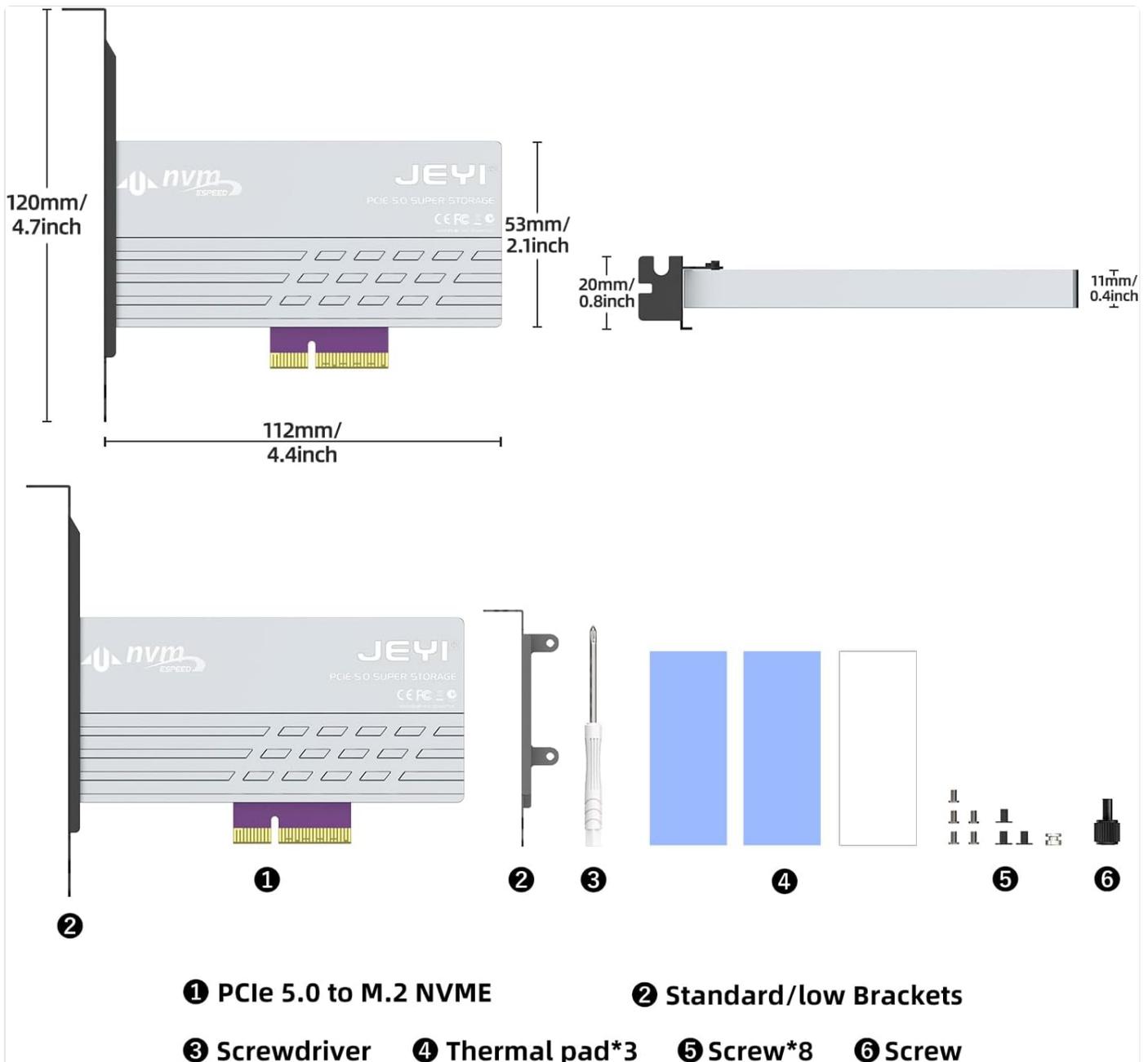


Image: Contents of the JEYI PCIe 5.0 M.2 NVMe Adapter Card package. It includes the adapter card, standard and low-profile brackets, a screwdriver, thermal pads, and various screws for installation.

SETUP AND INSTALLATION

Follow these steps to install your M.2 NVMe SSD onto the adapter card and then install the card into your computer.

1. SSD Installation onto Adapter Card

- 1. Remove Heatsink Screws:** Locate and remove the screws securing the aluminum heatsink to the adapter card. Carefully detach the heatsink.

Your browser does not support the video tag.

Video: This video demonstrates the unboxing and installation process for the JEYI PCIe 5.0 M.2 NVMe Adapter Card. It shows how to remove the heatsink, install an M.2 SSD, and secure the bracket.

- 2. Insert M.2 NVMe SSD:** Gently insert your M.2 NVMe SSD into the M.2 slot on the adapter card. Ensure it is fully seated.

Installation Steps



Image: Step-by-step visual guide for installing the M.2 SSD onto the adapter card, including inserting the SSD and securing it with a screw.

3. **Secure SSD:** Use the provided screw to secure the M.2 NVMe SSD in place on the adapter card.
4. **Apply Thermal Pads:** Place the thermal pads onto the M.2 NVMe SSD, ensuring good contact with the SSD's chips.
5. **Reattach Heatsink:** Carefully place the aluminum heatsink back onto the adapter card, aligning it with the screw holes. Secure it with the previously removed screws.
6. **Attach Bracket:** Choose the appropriate bracket (standard or low-profile) for your PC case. Attach it to the adapter card using the provided screws.

2. Adapter Card Installation into PC

1. **Power Off PC:** Shut down your computer completely and unplug the power cord.
2. **Open PC Case:** Remove the side panel of your computer case.
3. **Locate PCIe Slot:** Identify an available PCIe 5.0/4.0 x4, x8, or x16 slot on your motherboard.



Image: The JEYI PCIe 5.0 M.2 NVMe Adapter Card shown installed within a desktop computer's PCIe slot.

4. **Insert Adapter Card:** Carefully align the adapter card with the chosen PCIe slot and press down firmly until it is securely seated.
5. **Secure Bracket:** Secure the adapter card's bracket to the PC case with the appropriate screw.
6. **Close PC Case:** Replace the side panel of your computer case and reconnect the power cord.

OPERATING INSTRUCTIONS

The JEYI PCIe 5.0 M.2 NVMe Adapter Card is designed for plug-and-play functionality, requiring no additional drivers for most modern operating systems.

- **First Use:** Upon booting your computer, the operating system (Windows 10/11, Linux, macOS) should automatically detect the newly installed M.2 NVMe SSD.
- **Disk Initialization:** For a new SSD, you may need to initialize and format the drive through your operating system's Disk Management utility before it appears as usable storage. Refer to your OS documentation for specific steps.
- **Performance:** To achieve maximum throughput (up to 128Gbps or 16GB/s), ensure your motherboard and CPU support PCIe 5.0, and the entire data path adheres to PCIe 5.0 specifications. The adapter is backward compatible

with PCIe 4.0/3.0/2.0 slots, operating at the speed of the lowest common denominator.



Image: A visual representation comparing the bandwidth of PCIe 5.0 (10000+ MB/s) with PCIe 4.0 (6000+ MB/s), highlighting the ultra-high speed capability of Gen5.



Image: A screenshot of CrystalDiskMark benchmark results, illustrating read and write speeds exceeding 10000 MB/s, demonstrating the high performance of the adapter with a compatible SSD.

- **Boot Drive:** The adapter card can support an M.2 NVMe SSD as a boot drive, provided your motherboard's BIOS/UEFI supports booting from PCIe NVMe devices. Consult your motherboard manual for details.

MAINTENANCE

The JEYI PCIe 5.0 M.2 NVMe Adapter Card is designed for minimal maintenance. However, periodic checks can ensure optimal performance and longevity.

- **Dust Removal:** Periodically open your PC case and use compressed air to gently remove any dust accumulation from the adapter card and heatsink. Dust can impede heat dissipation.
- **Thermal Pad Integrity:** If you notice unusual temperatures or performance degradation, inspect the thermal pads for wear or damage. Replace them if necessary.
- **Secure Connections:** Ensure all screws and connections remain tight. Loose components can lead to intermittent issues.

Effective **Multiple Heat Sink** Method

Heavy-duty aluminum heatsink with thermal compound pads and air flow notches dissipates more heat



Image: A diagram showing the effective multiple heatsink method, illustrating how the heavy-duty aluminum heatsink with thermal compound pads and airflow notches dissipates heat from the M.2 NVMe SSD.

TROUBLESHOOTING

Problem	Possible Cause	Solution
SSD not detected by OS.	Loose connection. SSD not initialized/formatted. Incorrect PCIe slot used. Motherboard BIOS/UEFI settings.	Reseat the SSD and adapter card. Check Disk Management (Windows) or Disk Utility (macOS) to initialize and format the SSD. Ensure the adapter is in a compatible PCIe x4/x8/x16 slot. Check BIOS/UEFI for NVMe support and boot order.

Problem	Possible Cause	Solution
Slow performance.	Adapter in a lower PCIe generation slot. Thermal throttling. Outdated motherboard drivers/BIOS.	Ensure the adapter is in a PCIe 5.0 slot for maximum speed. Verify heatsink is properly installed with thermal pads. Check system airflow. Update motherboard BIOS and chipset drivers.
System instability/crashes.	Loose connection. Overheating. Incompatible hardware.	Reseat the adapter card. Monitor SSD temperatures. Ensure adequate cooling. Verify motherboard and SSD compatibility.

SPECIFICATIONS

Feature	Detail
Model Number	PCIe 5.0 NVMe Heatsink
Hardware Interface	PCI Express 16 GB/s (PCIe 5.0 x4)
Data Transfer Rate	Up to 128 Gigabits Per Second (16GB/s)
PCIe Slot Compatibility	PCIe 5.0/4.0 x4, x8, x16 (backward compatible)
M.2 SSD Support	2280, 2260, 2242, 2230 M.2 NVMe SSDs (M Key)
Heatsink Material	Aluminum with Thermal Pads
Operating System Compatibility	Windows 10/11, Linux, macOS
Product Dimensions	4.72"L x 2.09"W x 4.41"H (approx. 120mm x 53mm x 112mm)
Item Weight	5.7 ounces (0.16 Kilograms)

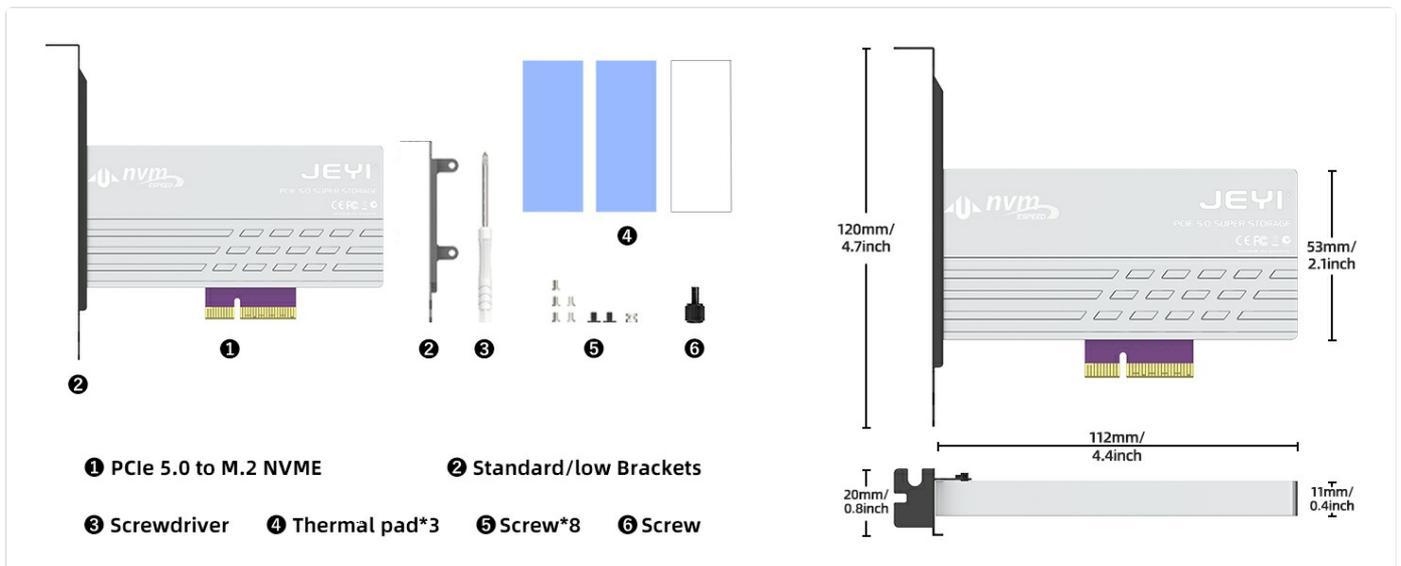


Image: Detailed diagram illustrating the dimensions of the JEYI PCIe 5.0 M.2 NVMe Adapter Card and its included components, such as brackets, screwdriver, thermal pads, and screws.

WARRANTY AND SUPPORT

JEYI products are designed for reliability and performance. For warranty information and technical support, please refer to the official JEYI website or contact their customer service directly.

- **Return Policy:** This product is eligible for a refund or replacement within 30 days of purchase.
- **Manufacturer:** JEYI
- **Contact:** For further assistance, visit the [JEYI Store on Amazon](#) or consult the contact information provided in your product packaging.