

NFHK NF-SA-001

NFHK NGFF M-Key NVMe AHCI SSD to PCI-E 3.0 x4 Adapter Instruction Manual

Model: NF-SA-001

1. PRODUCT OVERVIEW

The NFHK NGFF M-Key NVMe AHCI SSD to PCI-E 3.0 x4 Adapter is designed to convert an M-Key M.2 NGFF SSD for use in a PCI-E x4 slot. This adapter facilitates form conversion without altering the speed or other properties of the SSD. It supports various M.2 card dimensions including Type 2230, 2242, 2260, and 2280. The adapter is transparent to the operating system and does not require any specific software drivers for basic functionality.

Key Features:

- M-Key M.2 NGFF SSD to PCIe X4 adapter.
- Maintains original SSD speed and properties; acts as a form conversion interface.
- Supports PCIe 3.0 and PCIe 2.0 motherboards, compliant with PCI Express 3.0.
- Compatible with M-key SSDs such as XP941, SM951, PM951, A110, m6e, and 960 EVO SSDs.
- Supports M.2 Card dimensions: Type 2230, 2242, 2260, 2280.
- No software drivers required for operation.
- **Important:** This adapter only works for M-key sockets and is not compatible with B-key or B/M-key sockets.

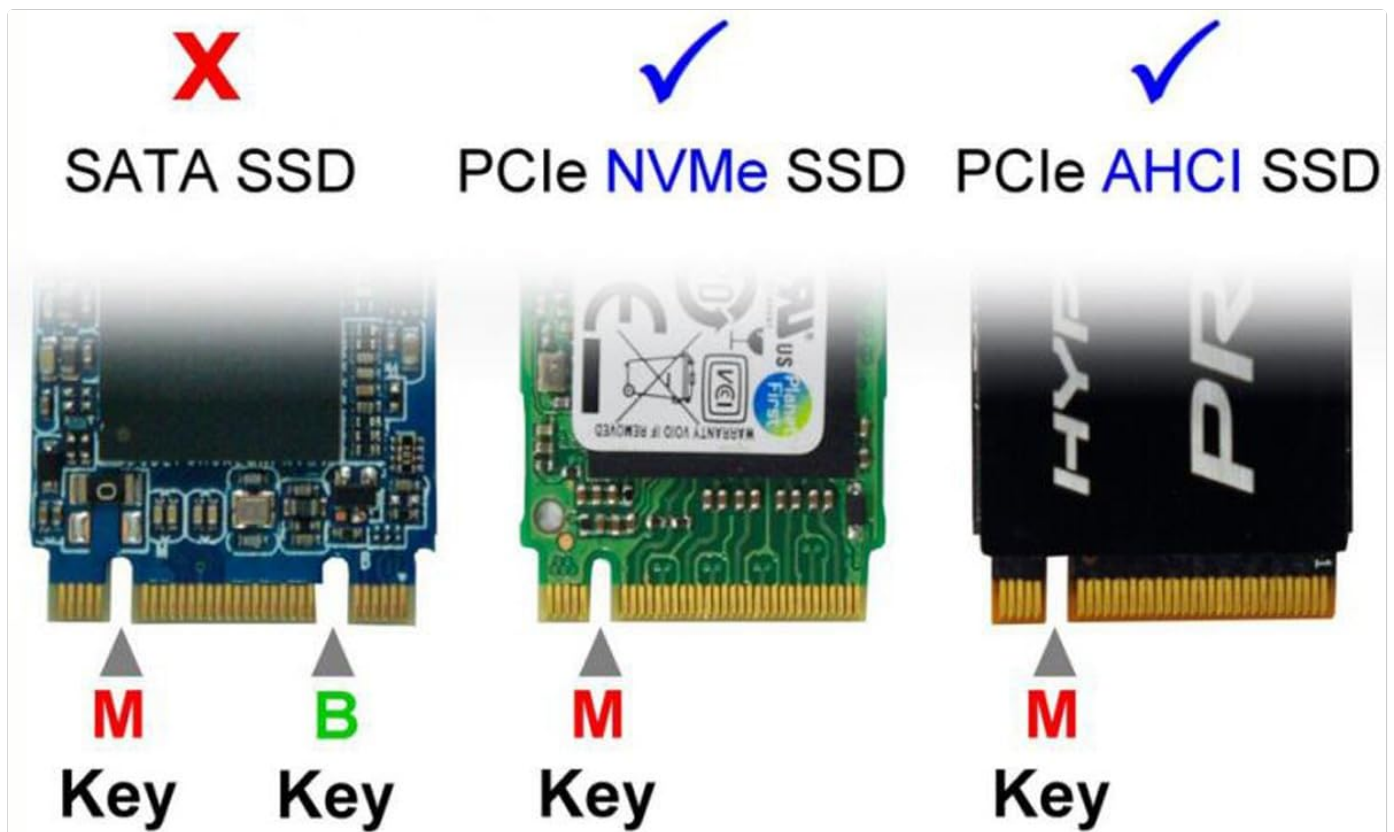


Image: Visual guide illustrating the difference between M-Key and B-Key M.2 SSDs, highlighting compatibility with M-Key NVMe SSDs.

2. SYSTEM REQUIREMENTS

- **Motherboard:** Z97 chipset or later.
- **Operating System:** Windows 10 or later.

3. SETUP AND INSTALLATION

Follow these steps to install your M-Key NVMe SSD onto the NFHK PCI-E adapter and then into your computer's motherboard.

3.1 Installing the M.2 SSD onto the Adapter

1. **Prepare the Adapter:** The adapter board has multiple screw holes to accommodate different M.2 SSD lengths (2230, 2242, 2260, 2280). Identify the correct standoff position for your SSD's length. If necessary, unscrew and relocate the brass standoff to match your SSD's length.

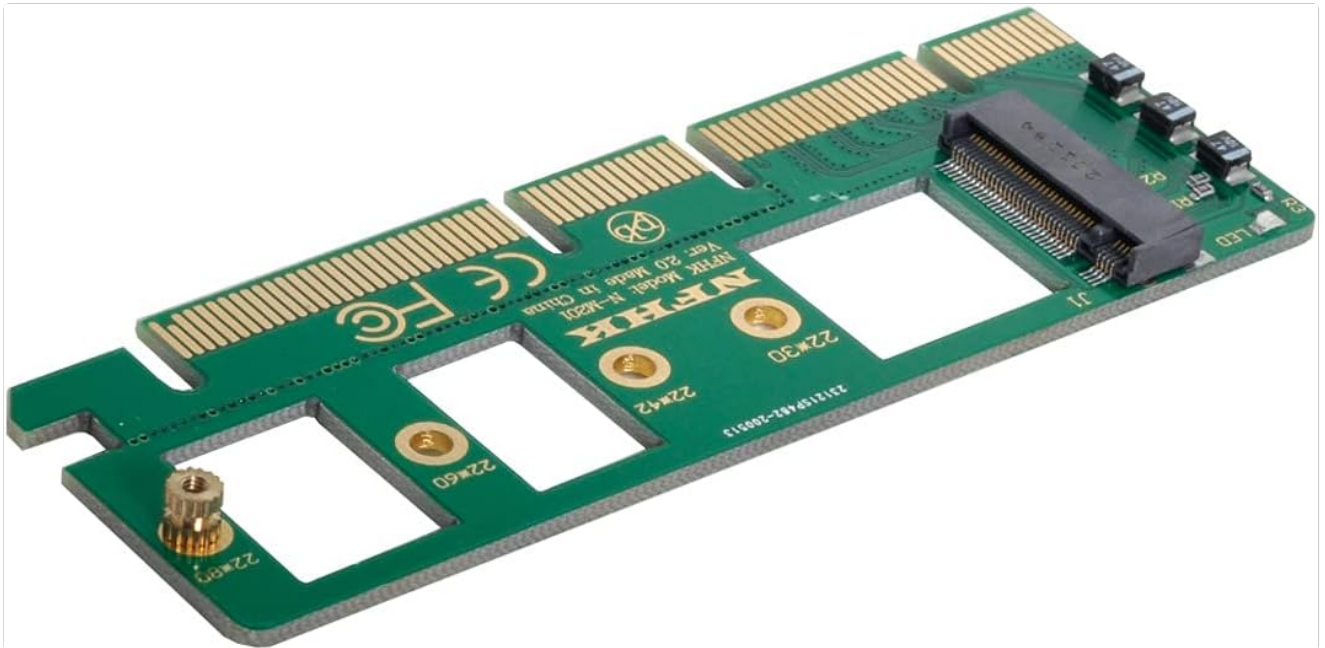


Image: The adapter board showing the various standoff positions for different M.2 SSD lengths.

2. **Insert the M.2 SSD:** Gently insert your M-Key NVMe SSD into the M.2 slot on the adapter board at a slight angle. Push it firmly until it is seated correctly.
3. **Secure the SSD:** Once inserted, push the SSD down towards the adapter board. Secure it with the screw provided, fastening it to the brass standoff. Do not overtighten.



The SSD not included.

Image: An M.2 NVMe SSD correctly installed and secured onto the NFHK PCI-E adapter.

3.2 Installing the Adapter into the Motherboard

1. **Identify a Compatible PCI-E Slot:** Locate an available PCI-E x4, x8, or x16 slot on your motherboard. For optimal performance, ensure the slot supports the PCI-E generation of your NVMe SSD (e.g., PCI-E 3.0 for a Gen3 NVMe SSD). Refer to your motherboard's manual for specific slot capabilities.
2. **Insert the Adapter:** Align the adapter with the chosen PCI-E slot. Gently push the adapter down into the slot until it is fully seated and the retention clip (if present on your motherboard) engages.

3. **Secure the Adapter:** Secure the adapter to your PC case with a screw through the bracket, if applicable.

3.3 Installation Video Guide

For a visual walkthrough of the installation process, please refer to the official product video below:

Your browser does not support the video tag.

Video: Official NFHK installation guide for the NGFF M-Key NVMe AHCI SSD to PCI-E 3.0 x4 Adapter. This video demonstrates how to install an M.2 SSD onto the adapter and then into a motherboard's PCI-E slot.

4. OPERATION

Once the adapter with the M.2 NVMe SSD is correctly installed in a compatible PCI-E slot, your operating system (Windows 10 or later) should automatically detect the new storage device. You may need to initialize and format the SSD through Disk Management before it can be used for storage.

The adapter functions as a pass-through interface, meaning the performance of the SSD will be determined by the SSD itself and the PCI-E slot's capabilities. No additional drivers are required for the adapter.

5. SPECIFICATIONS

Feature	Detail
Product Dimensions	3.94 x 3.94 x 0.39 inches
Item Weight	0.704 ounces
Manufacturer	NFHK
ASIN	B093DJ7CBP
Item Model Number	NF-SA-001
Compatible Devices	Desktop, Laptop (with compatible PCI-E slot), Smartphone, Tablet (indirectly, via desktop/laptop)
Connector Type	M-Key M.2 socket to PCI-E x4
Color	Green PCI-E to NVME 80mm

6. TROUBLESHOOTING

- **SSD Not Detected:**
 - Ensure the M.2 SSD is an M-Key NVMe type. B-Key or B/M-Key SATA SSDs are not compatible.
 - Verify the adapter is fully seated in the PCI-E slot.
 - Check your motherboard's BIOS/UEFI settings to ensure the PCI-E slot is enabled and configured correctly for NVMe devices. Some motherboards may require specific settings or have shared bandwidth with other ports.
 - Confirm your operating system is Windows 10 or later.
 - In Disk Management (Windows), check if the drive appears as unallocated space. If so, initialize and format it.

- **Slow Performance:**

- Ensure the adapter is installed in a PCI-E slot that matches or exceeds the generation of your NVMe SSD (e.g., a Gen3 SSD in a Gen3 or Gen4 slot). Using a lower generation slot will limit performance.
- Check your motherboard manual for potential bandwidth sharing issues with other PCI-E slots or SATA ports.

- **Physical Fit Issues:**

- Ensure the brass standoff on the adapter is correctly positioned for your M.2 SSD's length.

7. WARRANTY AND SUPPORT

This product typically comes with a 1-year warranty. For specific warranty details, returns, or technical support, please refer to the seller's policy or contact NFHK customer service directly. Keep your purchase receipt for warranty claims.

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