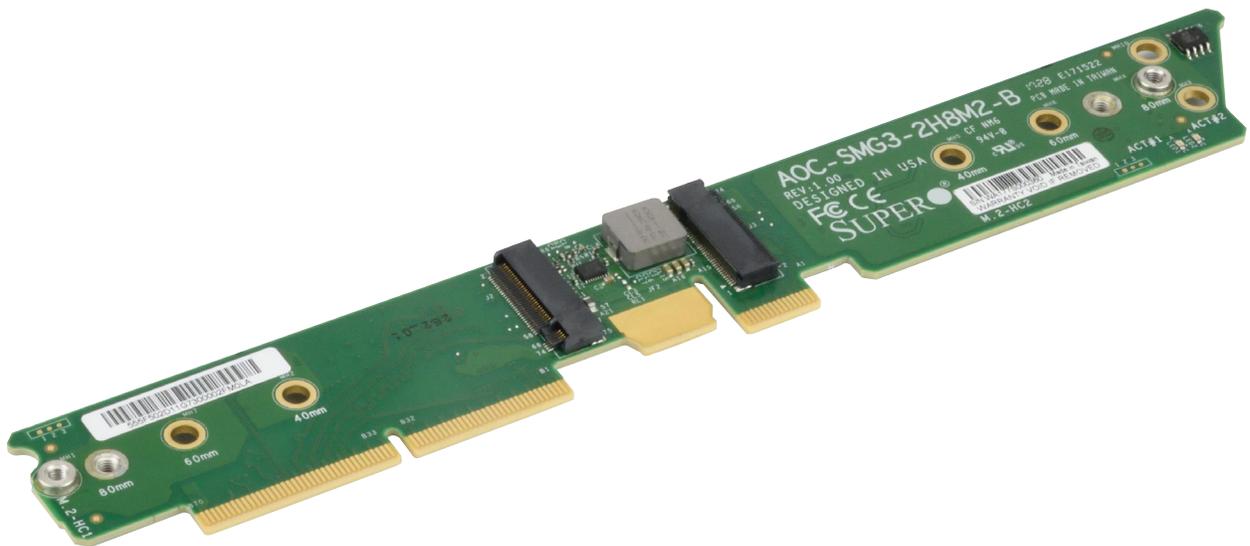




AOC-SMG3-2H8M2-B M.2 CARRIER CARD



INSTALLATION GUIDE

Revision 1.0b

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M.2 Carrier Card AOC-SMG3-2H8M2-B

The AOC-SMG3-2H8M2-B card connects two M.2 solid state drives (SSDs), and is built for use in BigTwin™ systems. It supports SATA and NVMe, and three form factors: 22x42 mm, 22x60 mm, or 22x80 mm. It can be pre-installed on a server, or can be ordered and added separately. **Note:** For NVMe, the maximum system operating temperature is 30° C.

This document describes installation.

Caution: Use industry-standard anti-static equipment, such as gloves or a wrist strap, and follow precautions to avoid damage caused by ESD.

Installing M.2 Solid State Drives

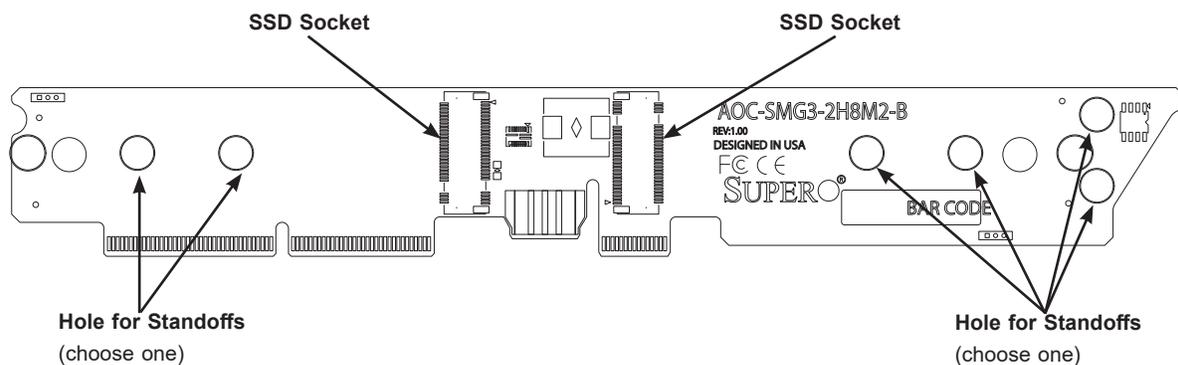


Figure 1. M.2 Carrier Card Layout

The installation procedure follows.

To Install M.2 SSDs and the Carrier Card

1. For each SSD, install the standoff in the appropriate hole that corresponds with the form factor of the SSD to be installed (42, 60, or 80 mm length SSDs are supported). Push the plastic standoff until it snaps into the carrier card.

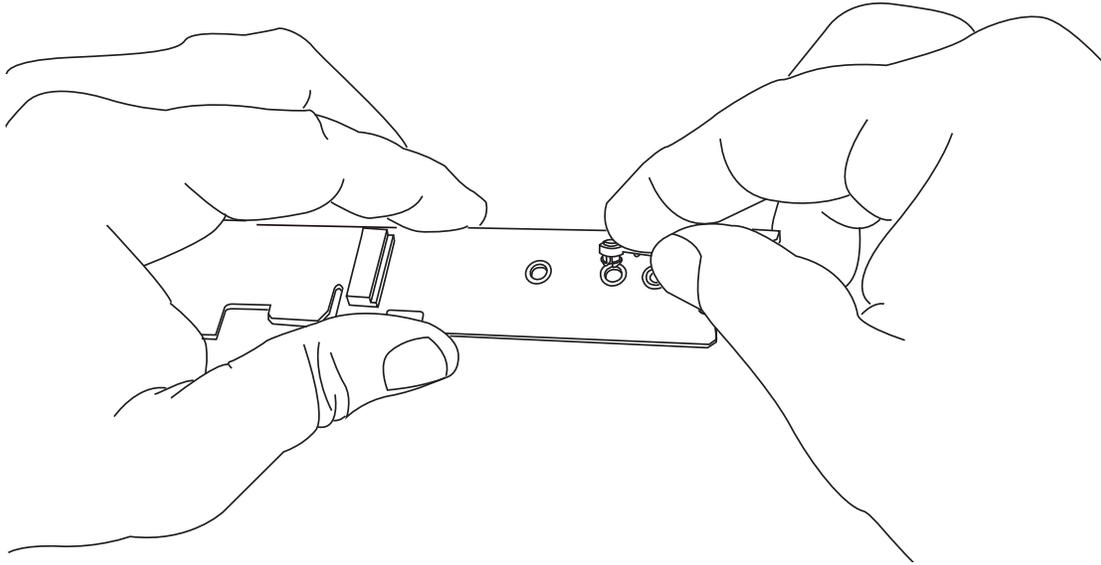


Figure 2. Inserting the Standoff
(drawing shows hole for 60 mm SSD)

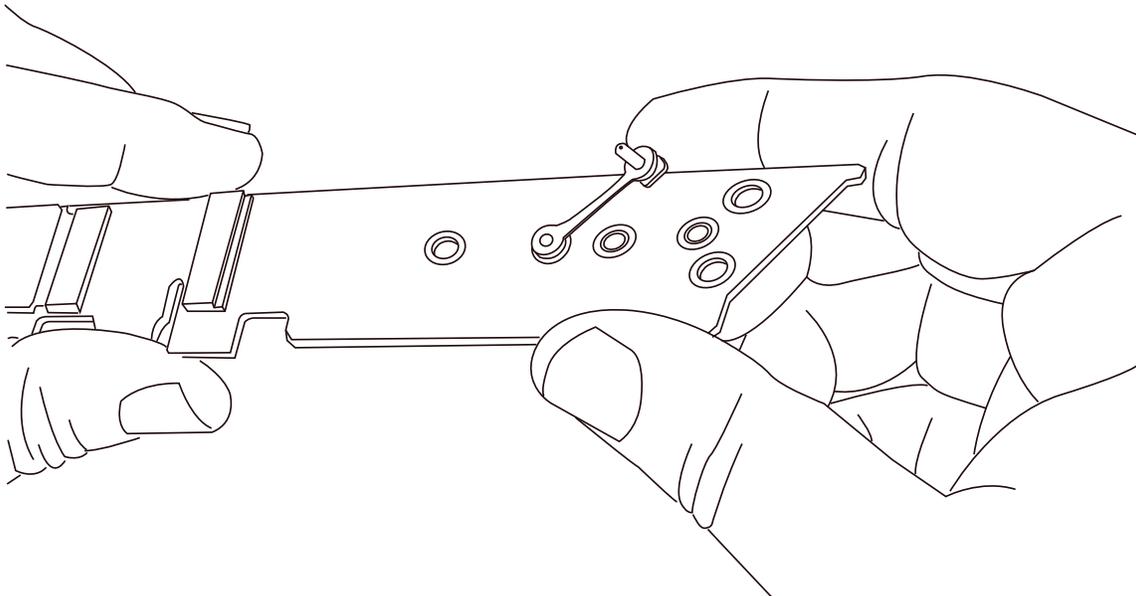


Figure 3. Inserted Standoff

2. Insert the SSD into the socket on the carrier card. Then push it flat against the carrier card and the plastic standoff.

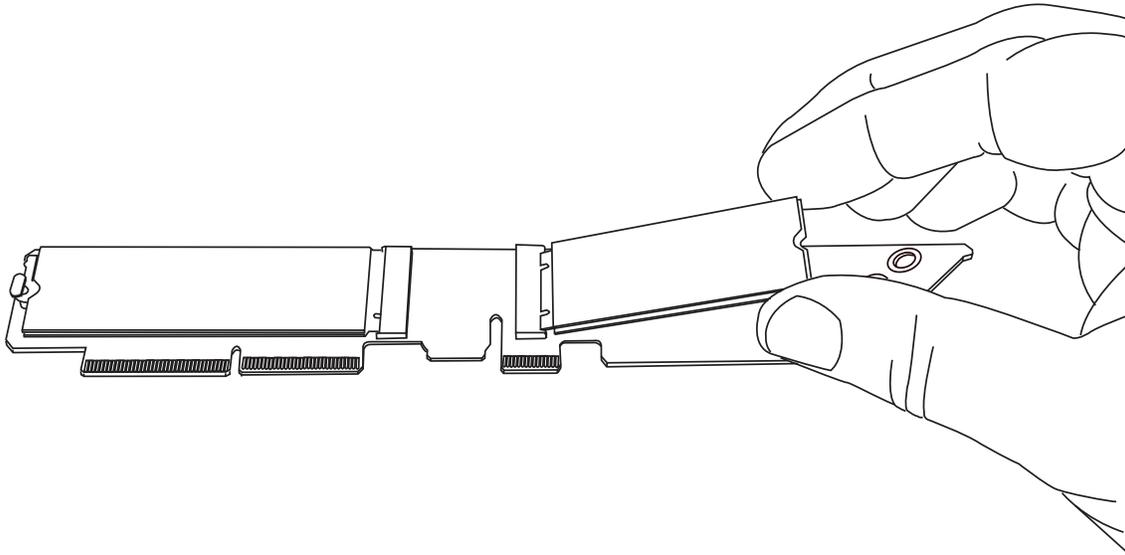


Figure 4. Inserting SSD

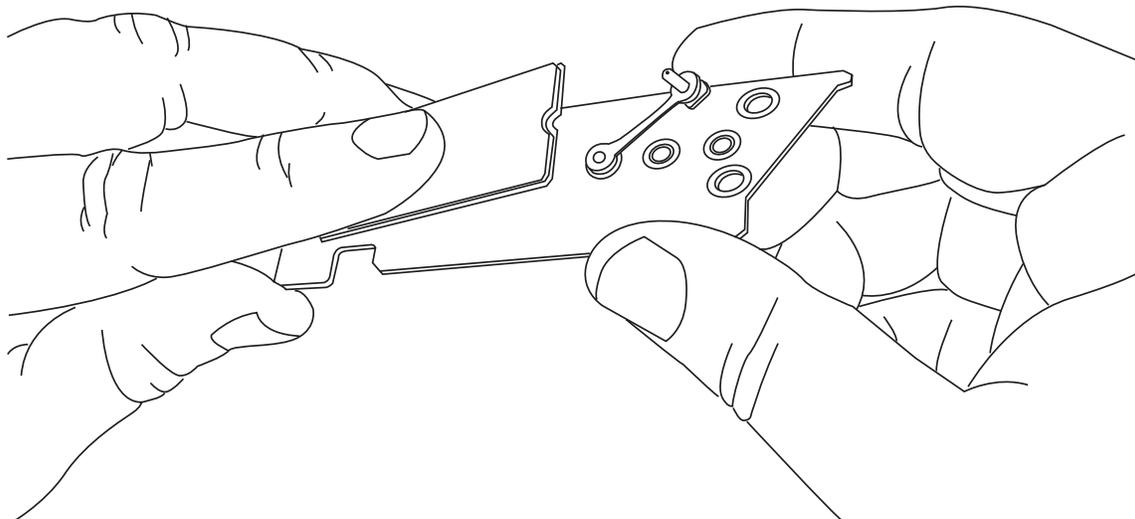


Figure 5. Inserting SSD

3. Secure the SSD by firmly inserting the standoff plug.

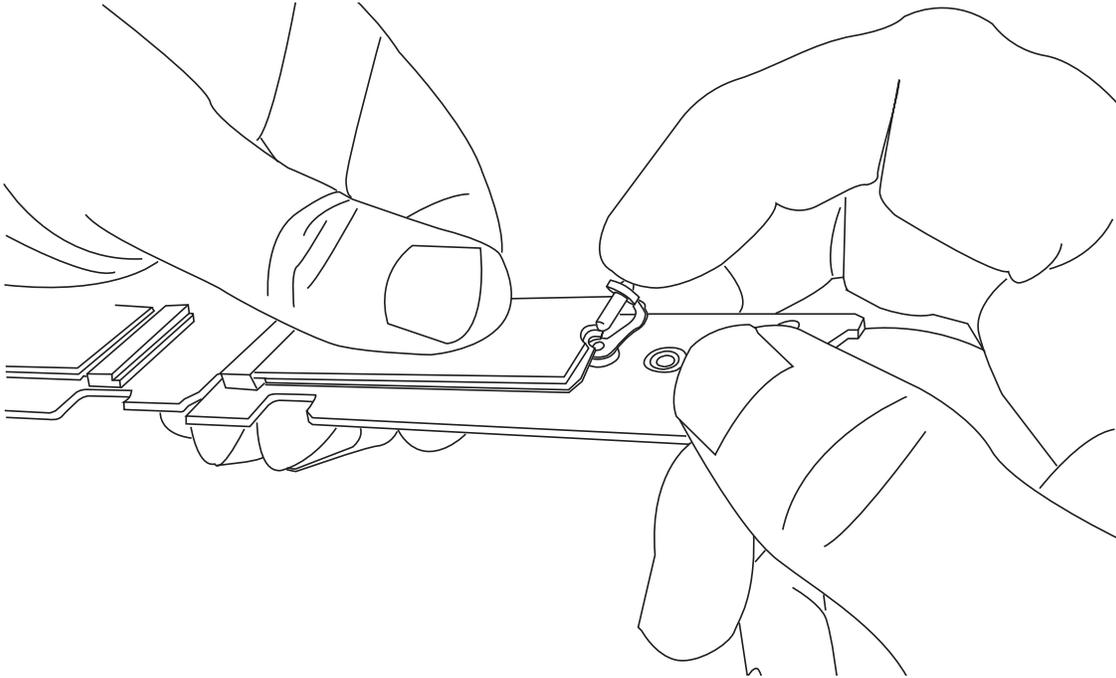


Figure 6. Inserting Standoff Plug

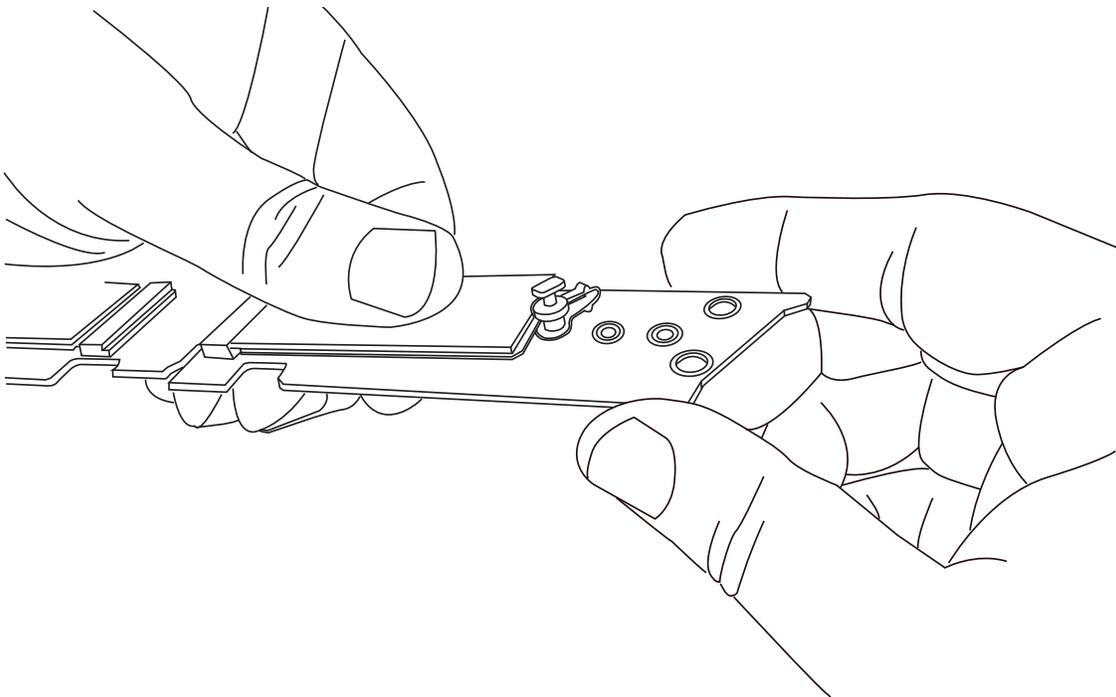


Figure 7. Inserted Standoff Plug

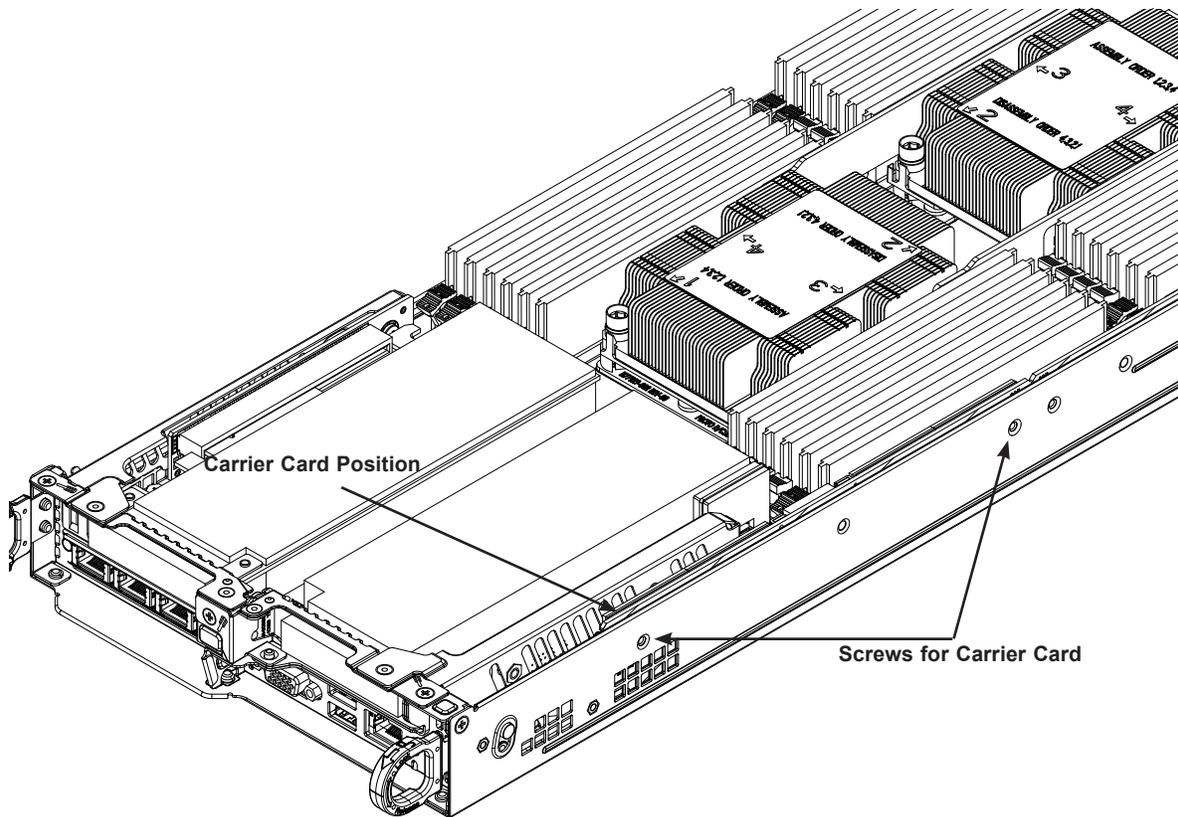


Figure 8. Locating the M.2 Carrier Card Slot and Screws

4. Power down the node and remove it from the chassis.
5. On the motherboard, remove any DIMMs obstructing access to the carrier card slot.
6. Push the carrier card into the slot on the motherboard. With the screws provided, secure it to the side of the node chassis.
7. Replace any DIMMs that may have been removed.
8. Replace the node into the chassis, and power up the system.

Removing the M.2 Carrier Card

If an M.2 carrier card is installed in your server, remove it to add M.2 solid state devices (SSDs).

To Remove the M.2 Carrier Card

1. Power down the node and remove it from the chassis.
2. Remove any DIMMs obstructing access to the carrier card.
3. Remove the two screws from the left side (viewed from the chassis front) of the node chassis that secure the carrier card to the node chassis. (See Figure 8.)

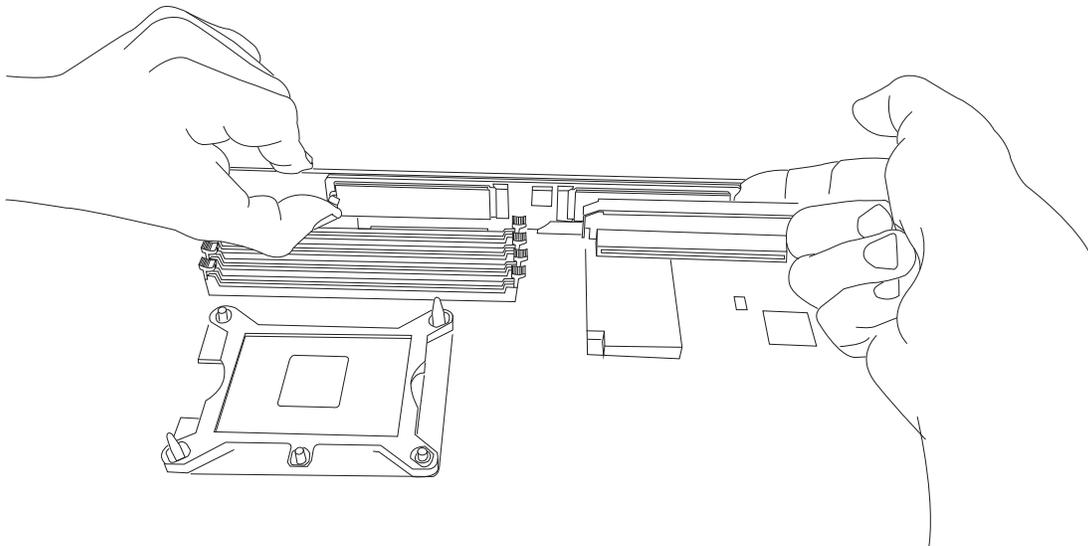


Figure 9. Removing the Carrier Card

4. Pull the card out of the socket by both notched edges (front and back) of the card. Be careful not to exert any force on any M.2 SSDs already installed on the card.
5. If you want to remove an installed SSD, remove the plug from the standoff and allow the M.2 SSD to lift up at an angle before removing it from the M.2 socket.

Additional Settings

Depending on the system, motherboard, and BIOS version, the following BIOS settings may be necessary for the proper operation of M.2 NVMe drives:

- Having the CPU IOU settings set to x4x4x4x4 PCIe bifurcation. This option may be found under **BIOS Setup -> Advanced -> Chipset Configuration -> North Bridge -> IIO Configuration -> CPU Configuration -> IOU Setting -> x4x4x4x4.**
- Having the NVMe Firmware Source set to AMI Native Support. This option may be found under **BIOS Setup -> Advanced -> PCIe/PCI/PnP Configuration -> NVMe Firmware Source -> AMI Native Support.**

Refer to the applicable system or motherboard User Manual.