



3-DRIVE M.2 NVMe SSD TO PCIe 3.0 X4 AIC WITH 10GbE



FEATURES

- Enables the addition of one, two, or three PCIe NVMe SSDs to a host machine via PCIe, with a backport 10Gbps (10GbE) Ethernet connection
- Applies x2 PCIe 3.0 downstream lanes to each internal NVMe SSD with a shared x4 PCIe 3.0 upstream connection; no bifurcation required, heatsink included
- Supports SSDs in the M.2 2230, 2242, 2260, and 2280 form factors; backward and forward compatibility for PCIe 2.0/3.0/4.0/5.0 SSDs at up to PCIe 3.0 speeds
- Ethernet capability at up to 10Gbps (10GbE) network speeds; backward compatible with 5Gbps (5GbE), 2.5Gbps (2.5GbE)
- Supports the L0s/L1/L23/L3 power-saving states, the S3/S4 wakeup function, LTR/AER, SRIS, WoL, and other features

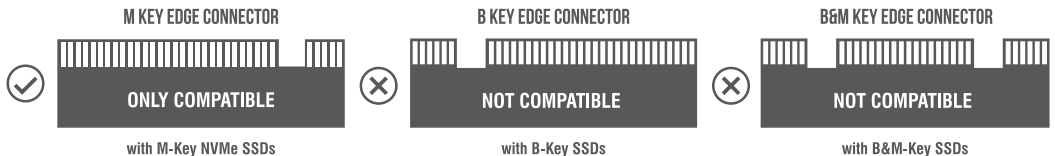
SUPPORTED OPERATING SYSTEMS

- Windows
- macOS
- Linux

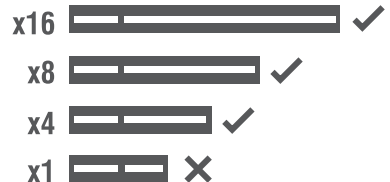
PACKAGE CONTENTS

- 3-Drive PCIe 3.0x4 NVMe M.2 SSD Card with Ethernet port
- Screwdriver with standoffs and screws

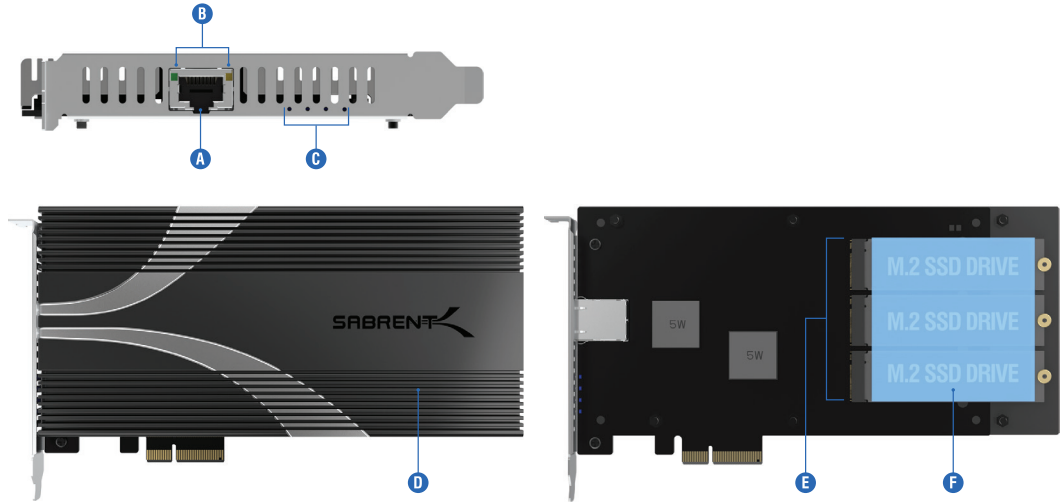
NVMe DRIVES ARE NOT INCLUDED



PCIe COMPATIBILITY



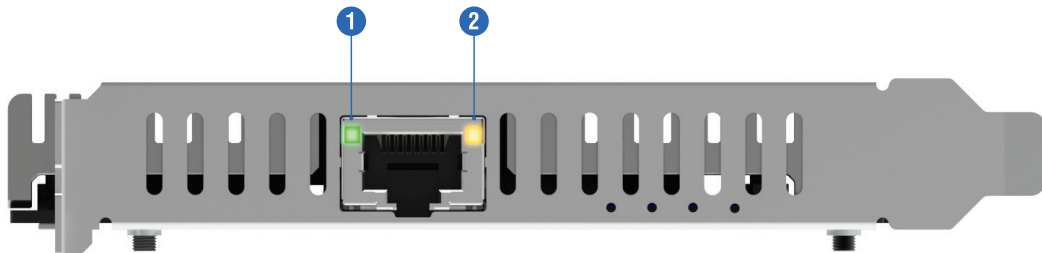
PRODUCT OVERVIEW



Device component list:

- A. RJ45 Ethernet port
- B. Pair of status LEDs around RJ45 port for network connection status
- C. Status LEDs for card and NVMe power/connection status
- D. PCIe Card with aluminum heatsink
- E. Three M.2 PCIe NVMe slots (2230/2242/2260/2280)
- F. Thermal padding for drives and controller chips

LED STATUS INDICATORS



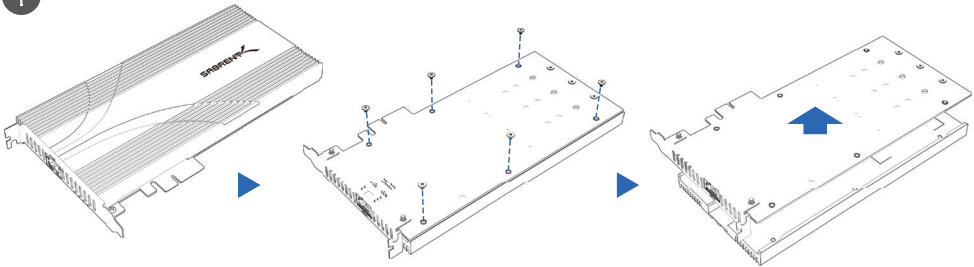
Multiple LED indicators along the backside of the card for NVMe power/connection status.

Two LEDs for the RJ45 Ethernet port indicate connection state and activity.

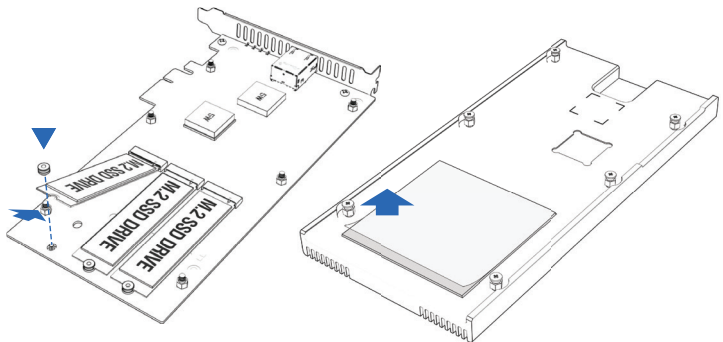
LED 1 - Network: Connection - Green, Activity - Flashing

LED 2 - Link speed: Up to 5GbE - Amber, 10GbE - Green

GETTING STARTED

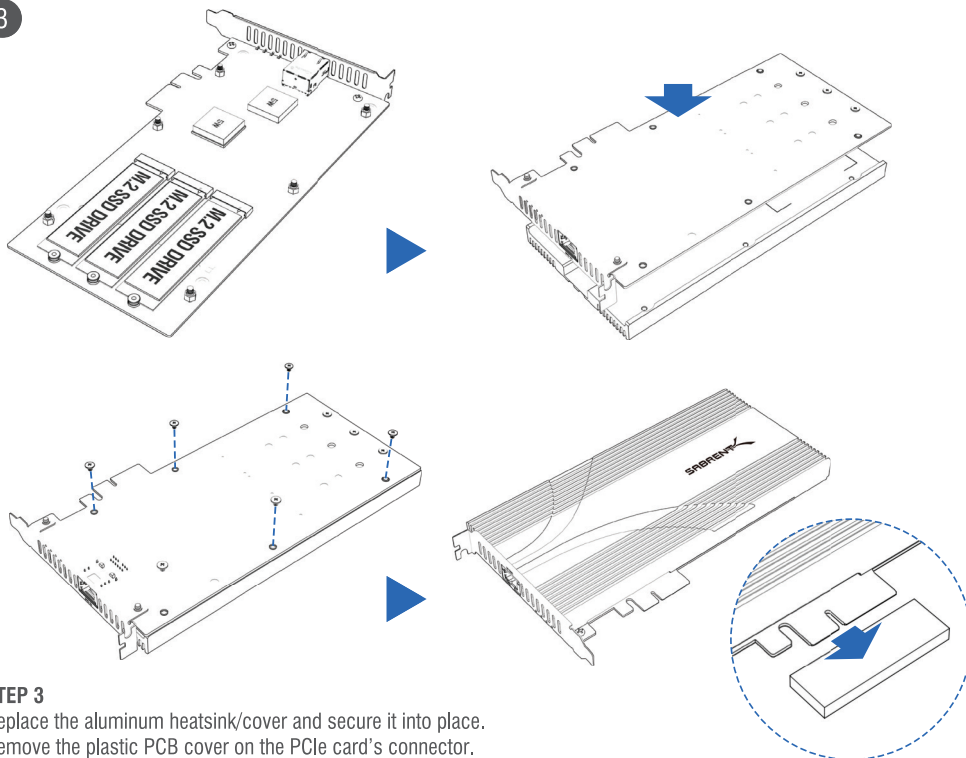
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STEP 1

Step 1. Remove the aluminum heatsink from the PCIe card as demonstrated.

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STEP 2

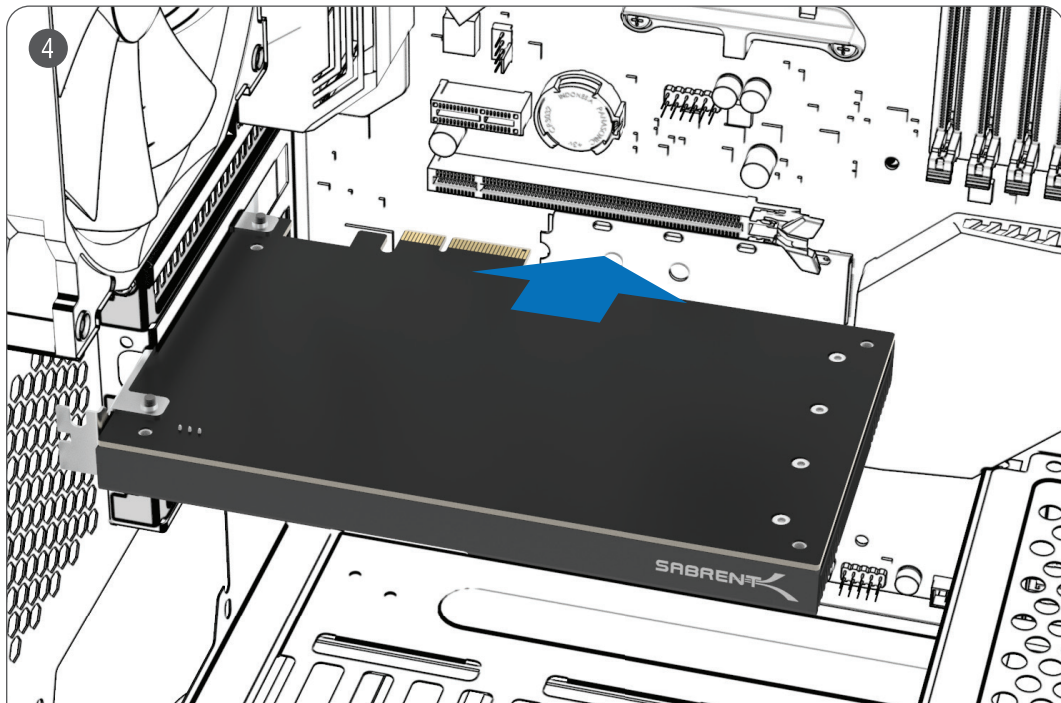
Install one or more SSDs using the appropriate standoff location(s) with the included standoffs and screws. Remove the plastic covering on the thermal pad, located on the back side of the heatsink, for the SSDs.

3



STEP 3

Replace the aluminum heatsink/cover and secure it into place.
Remove the plastic PCB cover on the PCIe card's connector.

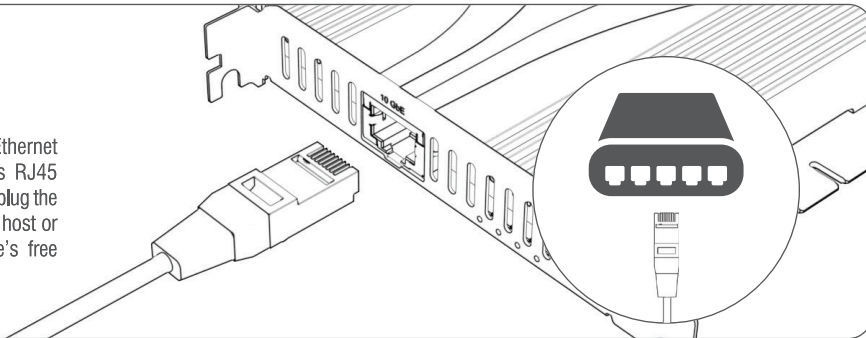
**STEP 4**

Install the card into a free x4/x8/x16 (physical) PCIe slot.

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STEP 5

If desired, plug an Ethernet cable into the unit's RJ45 Ethernet port. Then, plug the Ethernet cable into a host or networking hardware's free Ethernet port.



6

STEP 6

Scan the included QR code for hardware driver access or visit our website at www.sabrent.com for the download.



7

STEP 7

Access the drives via the host system's operating system, formatting as necessary with the appropriate application software. Software RAID may be set up similarly.

FREQUENTLY ASKED QUESTIONS

Q. What are the maximum performance specifications of the SSD Card unit?

A. The SSD Card unit is capable of a maximum 10Gbps of transfer speed through the 10GbE Ethernet connection. This is the performance limit for transfers over the network connection if all networking equipment is compatible/compliant. This connection shares upstream bandwidth with any and all attached SSDs.

Each drive has a connection of up to 16Gbps via two lanes of PCIe 3.0. This is backward compatible with PCIe 2.0 NVMe SSDs at up to 8Gbps, and newer PCIe 4.0 and 5.0 drives will operate at PCIe 3.0 levels. All three slots combined have a maximum 32Gbps connection with four lanes of PCIe 3.0 upstream to the host. This is shared with the Ethernet connection, if applicable.

Q. What are the maximum transfer speeds possible?

A. When going over the network, the maximum speeds will be 1.15+ GB/s, 575+ MB/s, or 285+ MB/s for 10GbE, 5GbE, and 2.5GbE network connections respectively. Performance may be impacted by network conditions or the size of the files/data in the transfer, factoring in bandwidth that may be shared with attached SSDs. For maximum performance use an appropriate network cable, preferably CAT6 or newer.

Any installed solid state drive can transfer at up to 16Gbps individually or 32Gbps in tandem, whether as individual volumes or as an array. 16Gbps after overhead and encoding is approximately 1.75 GBps. Performance is dependent on workload type and overall system performance. SSDs may also have reduced performance in some cases due to the nature of SLC caching.

Q. What about hardware compatibility?

A. PCIe NVMe SSDs of any generation are supported at respective speeds or up to PCIe 3.0 throughput levels. SSDs of the most typical M.2 lengths, 2230/2242/2260/2280, are supported for your convenience. Various network speeds are supported as determined by port, cable, networking, and related capabilities up to 10GbE. For internal SSDs, multiple PCIe functions, such as power-saving modes, are supported for higher efficiency and superior management. Likewise, networking options such as WoL are also supported if the host is compatible.

Q. What is the best way to manage the drives?

A. Applications such as Disk Management or Storage Spaces can be used to manage the drives singly, in a pool, or in a software RAID. PCIe bifurcation support on the motherboard is not required. For the best thermal performance, please use the included heatsink with attached thermal padding.



FOR HELP, COMMENTS, QUESTIONS OR CONCERNS
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