## Thank You

For Choosing VantecUSA Product.

We are committed to providing you with the best service and support. If you have a problem with installing, getting the product to function or other product related question, please feel free to write to us. We will help you answer your question.

You can write to us at :

support@vantecusa.com

For the latest Drivers, Manual and Frequently Asked Questions (FAQ), they are available at our website at vantecusa.com or write to us.

Thank you,
VantecUSA Support Team.

Installation Guide
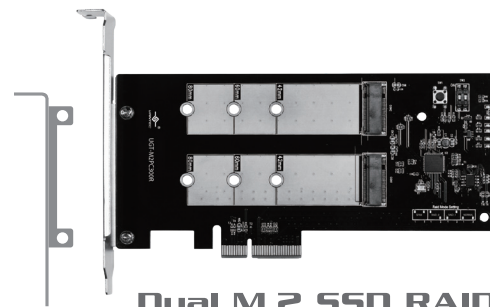
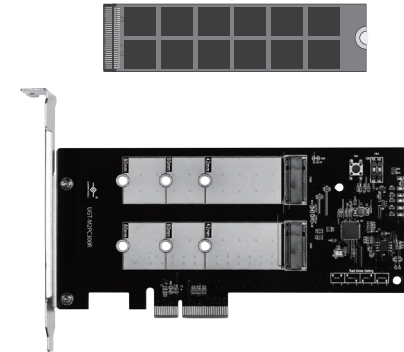**Dual M.2 SSD RAID PCIe x4 Host Card**

+ UGT-M2PC300R card
+ Standard (mounted) and Low profile bracket
+ Quick Install Guide
+ Screw x2 (for M.2)
+ Screw Nut x2 (for M.2)

**1.** Verify the package contents.

⚠ CAUTION
**Static Sensitive Devices Handle with Care**

Your Module

2. Before you unpack your module and take out the PCIe card, please be aware that these are sensitive devices and can be damaged by Static Electricity.
Please ground yourself before handling them and hold it by the edge of the PCB and PCIe card.

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80 mm
60 mm
42 mm

M.2 Card
22x80 mm
22x60 mm
22x42 mm
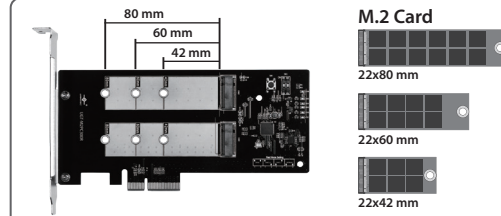
3. M.2 module comes in different length and sizes (42, 60, or 80mm), match your M.2 module length to the hole alignment to decide which mounting hole to use.
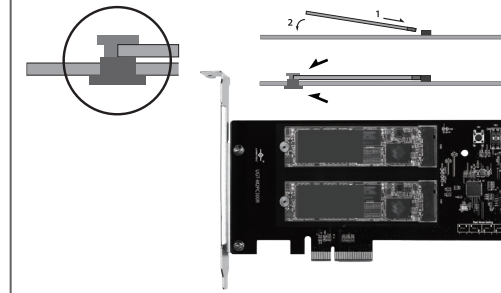
4. Attached the M.2 module by inserting the M.2 Card at an angle, push it down and secure with the Screw Nut from the bottom and the screw from the top down to hold the M.2 module in place.


NORMAL MODE (Individual)

Both switch in the down position
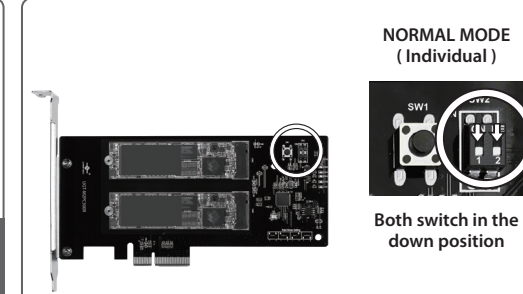
**5.** Check to make sure the RAID Mode Switch is set to **NORMAL MODE**
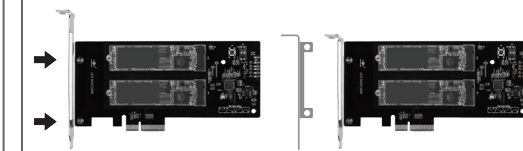
6. The PCIe Card is ready to be installed into your system. If you are adding this card into a Slim or Low Profile System, please replace the standard bracket with the Low Profile Bracket provided. Remove the two screws holding the standard bracket, replace it with the Low Profile Bracket and secure back the two screws holding the bracket.

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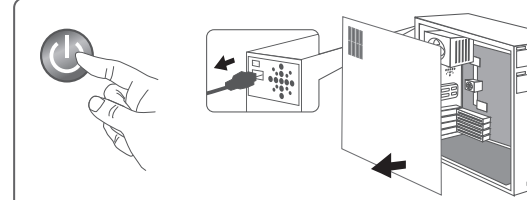
7. Turn off Computer System, unplug the computer power cord from the wall outlet and remove the cover of the Computer System.

x1   x4   x8   x16
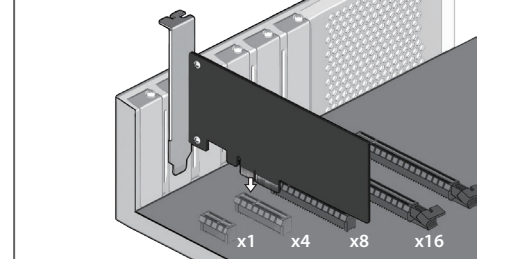
8. Locate a free PCIe x4, x8 or x16 expansion slot and remove the plate covering the back aligned with the PCIe slot. Insert this new PCIe card into the PCIe slot, make sure the PCIe card contacts is totally inserted into the PCIe slot. Secure and fasten the PCIe card as documented in the Computer System manufacturer's documentation.

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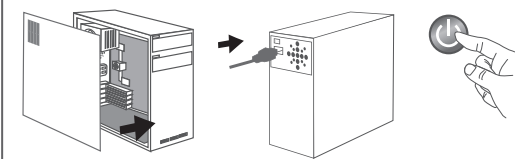
9. Reattached the power cord to the Computer System, plug back to the wall outlet and power ON the System.

10. When the system is booting before Windows OS is loaded, press and hold "CTRL" R on the keyboard to enter the RAID Manager Setup. Once you are in the RAID Manager Setup you can set or create the RAID set. Once the RAID is created or set, you can exit this setup and the system will continue to boot and start the Windows OS.
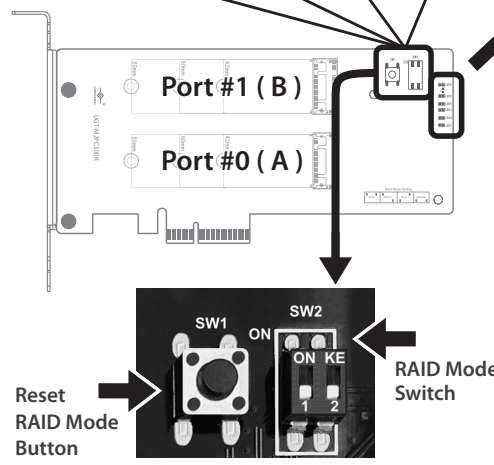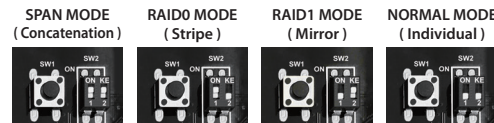
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11. If you are planning to use this RAID card (RAID/Non-RAID) to load OS and boot, you may start now using the Windows Setup Media. Just install the OS normally.

12. If you are planning to use this RAID card (RAID/Non-RAID) to use for storage, NOT for booting, just boot to your OS and you can use the OS Disk Management tool to prep this storage.

Note: All newer Storage need to be prep using Operating System tools to Initialize, Partition and Format before use.

For detail, instruction refers to the FAQ **"How to preparing a New storage, Hard Drive, or SSD for use with a system"** on our website support section at **www.vantecusa.com**

DO NOT CHANGE RAID MODE SWITCH, make sure the setting is on NORMAL MODE for easy BIOS or Software RAID Setup.

SPAN MODE (Concatenation) | **RAID0 MODE (Stripe)** | **RAID1 MODE (Mirror)** | **NORMAL MODE (Individual)**

Port #1 (B)

Port #0 (A)

SW1   SW2
ON
ON KE
1 2

Reset RAID Mode Button

RAID Mode Switch

Blue	LED6	M.2 (B) Power LED
Blue	LED5	M.2 (A) Power LED
Red	LED4	M.2 (B) Error
Blue	LED3	M.2 (B) Read/Write Activity
Blue	LED2	M.2 (A) Read/Write Activity
Red	LED1	M.2 (A) Error

If the RAID fails, the RAID will automatically rebuild once a new M.2 SSD module is replaced. Error LED will be ON during rebuild until it is completed Rebuild can take place in **RAID BIOS** (will show rebuild percent) OR **after OS is booted** (will show rebuild percent in RAID manager) Rebuild speed is about 30 minutes for 250GB (RAID 1)

LED6 - Blue LED will be ON, Power Ready for Slot B (Top Slot)

LED5 - Blue LED will be ON, Power Ready for Slot A (Bottom Slot)

LED4 - Red LED constant flash report error on Slot B, RAID controller cannot write to Slot B.
    Red LED not ON if the M.2 SSD function normally

LED3 - Blue LED random flashing during Read/Write Activity on Slot B

LED2 - Blue LED random flashing during Read/Write Activity on Slot A

LED1 - Red LED constant flash report error on Slot A, RAID controller cannot write to Slot A.
    Red LED not ON if the M.2 SSD function normally