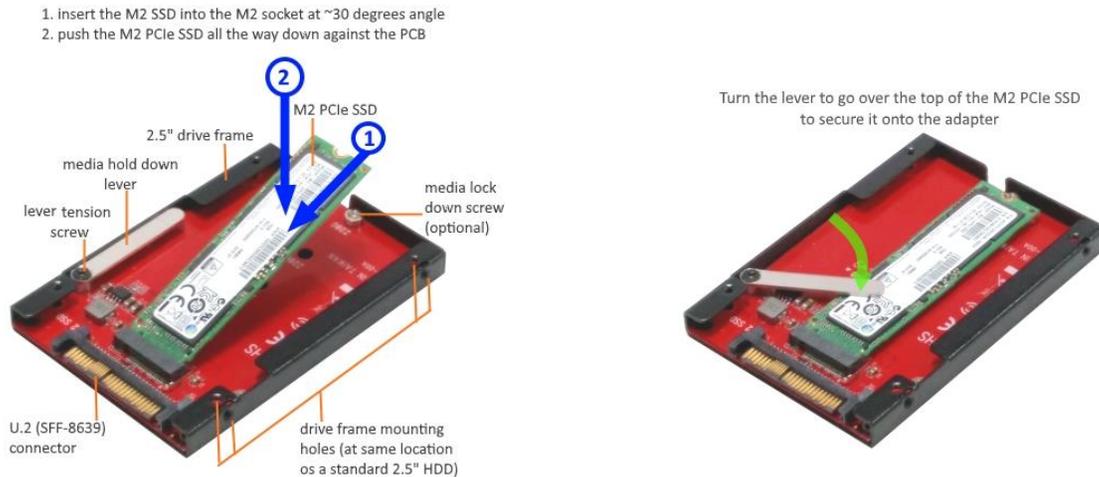


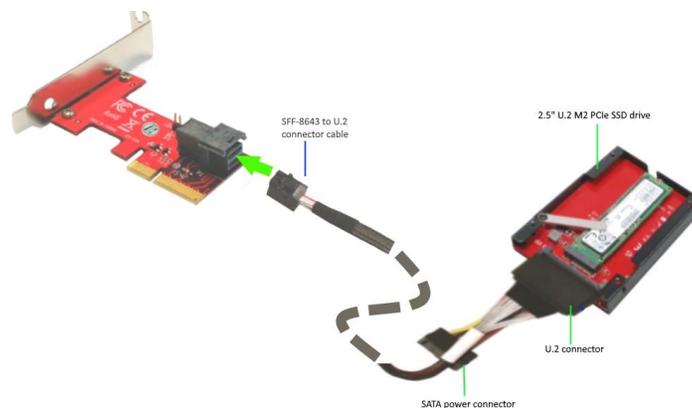
### INTRODUCTION

This Addonics M2 Flash drive kit turns a regular M2 PCIe or M2 NVMe SSD into a 2.5" U.2 SSD. The drive frame and the connector mimic the exact size and connector location of a 9 mm. 2.5" SATA hard drive. So once the M2 PCIe or NVMe SSD is mounted inside this 2.5" M2 Flash drive, it can be used just like a standard 9 mm 2.5" SATA SSD with the U.2 connector (SFF-8639), same as the standard 2.5" U.2 NVMe SSD. This allows installing the M2 PCIe or NVMe SSD into a drive bay instead of the PCIe slot. The drive can then connect to a SFF-8643 connector in the system via a SFF-8639 to U.2 cable, resulting in a drive with the same high performance as if the M2 PCIe or NVMe SSD is installed into the PCIe slot.

**The 2.5" U.2 M2 PCIe SSD drive kit is designed to accommodate four different sizes of M2 PCIe SSD. The metal frame has the exact dimensions and mounting hole location of a 9 mm 2.5" hard drive.**



### Illustration for connecting the 2.5" U.2 M2 PCIe/NVMe SSD drive to SFF-8643 connector



### FEATURES

- Build your own 2.5" U.2 SSD using M2 PCIe or NVMe SSD of your choice
- Support M2 in length of 30, 42, 60 and 80 mm
- The M2 SSD can be installed without any mounting screw for convenience
- Replace 2.5" U.2 SSD with M2 PCIe or NVMe SSD
- The adapter kit mechanically mimics a 9 mm height SATA SSD
- Light weight durable aluminum bracket
- Can be the primary bootable device containing the OS and applications\*
- High current power regulator onboard to ensure reliable operation of large capacity high performance NGFF media
- Industrial operating temperature: **-40 °C to + 85 °**
- OS requirement:
  - M2 PCIe SSD - OS independent. No software driver required
  - M2 NVMe SSD - Supported under Windows 10, Windows 7 and Windows server 2008 R2
    - ◆ Windows 10 - no driver required
    - ◆ Windows 7 and Windows Server 2008 R2 require following update from Microsoft™ (<https://support.microsoft.com/en-us/kb/2990941>)
    - ◆ All other OS, please see more information at the following web page [https://en.wikipedia.org/wiki/NVM\\_Express](https://en.wikipedia.org/wiki/NVM_Express).

#### \*Note:

Booting from the M2 PCIe or NVMe SSD is a function of the system hardware and BIOS. Users need to check with system manufacturer on the support of this feature.

M2 PCIe SSD is not the same as the M2 SATA SSD. M2 SATA SSD can be installed into this adapter but will not be operable. The M2 PCIe SSD communicates via PCIe BUS and the data throughput depends on the speed of the M2 media and the PCIe BUS. A 4-Lane PCIe 1.0 slot has a maximum speed limit of 10 Gbps whereas a 4-Lane PCIe 3.0 slot supports a maximum speed of 40 Gbps.

NVMe SSD installation:

1. BIOS in some older system may not support NVMe Express. System with UEFI BIOS may be required. Please verify with your system manufacturer to confirm the support of NVMe Express in the PCIe slot.
2. Software driver is required for installing 2.5" NVMe U.2 SSD. You may contact the SSD manufacturer web site to download the necessary driver for your OS

### SPECIFICATIONS

- U.2 (SFF-8639) connector (same as a standard 2.5" U.2 NVMe SSD)
- Maximum transfer rate: 40 Gbps. Actual speed depends on the speed of the M2 media and the PCIe slot
- 1 M2 PCIe/NVMe SSD connector plus one mounting pole.
- Mounting pole can be moved to lock down media in the length of 30, 42, 60 and 80 mm
- Media can be secured with a hold down lever instead of mounting pole for convenience
- Mounting bracket Dimensions: 69.85 mm (W) x 100.2 mm (L) x 9 mm (H) (same as 2.5" hard drive with 9 mm height)
- Weight: ~ 52 g (1.83 oz) not including the M2 card
- Power: +5V from PC power supply
- Maximum Current: ~50 mA at 5V (without the flash media)
- High current power regulator onboard to ensure reliable operation of large capacity high performance NGFF media
- Industrial operating Temperature: -40 °C to + 85 °C
- Operating Humidity: 5% - 95% (non condensing)
- Storage Temperature: -40 °C to + 85 °C
- Storage Humidity: 5% - 95%
- Warranty: One Year