1.0 Requirements & Logicube Device Compatibility

The M.2 SSD adapters (part numbers F-ADP-M.2-SATA and F-ADP-M.2-USB) are sold individually. These adapters are compatible with the following Logicube products:

- Talon Ultimate (F-TALON-U)
- ZClone Xi (F-ZXI and F-ZXI-LAPTOP)
- ZXI-Forensic (F-ZXI-FORENSIC)
- SuperSonix-NG (F-SUPERSONIX-NG)
- ZX-Tower (F-ZX-T)
- WriteProtect DESKTOP (F-WP-DESKTOP)
- WriteProtect BAY (F-WP-BAY)

If your Logicube product has a PCIe port, please see this Application Note for our PCIe Adapter Kit for the F-SUPERSONIX-NG-P, F-TALON-U-P, F-TALON-U-I-P, F-WRITEPROTECT-DESKTOP-P, and F-WRITEPROTECT-BAY-P.
2.0 What’s Included?

The F-ADP-M.2-SATA adapter contains one M.2 to SATA adapter for SATA based M.2 SSDs.

The F-ADP-M.2-USB adapter comes with the following:

- QTY 1: M.2 to USB adapter for PCIe AHCI based SSDs (NVMe is not currently supported)
- QTY 1: USB 3.0 cable (A-Male to Micro-B-Male)
- QTY 1: Screwdriver

3.0 Pictures (for Reference)

4.0 Understanding mini PCIe, mSATA, and M.2 SSDs

mSATA and Mini PCIe – These SSDs have similar connectors. The mSATA SSD is Serial-ATA based, while the Mini PCIe is PCIe based. These two types of SSDs are not interchangeable.

M.2 Solid State Drives (SSDs) come with one of two types of physical layers (PHY) and three types of controllers:

- SATA physical layer – SATA M.2 SSDs utilize the SATA controller.
- PCIe physical layer – There are two controllers for PCIe M.2 SSDs: AHCI Controller or NVMe Controller. NVMe SSDs are currently not supported.

Typically, SATA M.2 SSDs utilize the “B & M key” while PCIe AHCI SSDs utilize the “M key”.

Although these examples are typical, we recommend contacting the SSD manufacturer to determine whether the SSD has a SATA interface or a PCIe interface.

PCIe AHCI M.2 SSDs are supported. PCIe NVMe M.2 SSDs are not supported.
5.0 Connecting and Using the Adapters

Depending on the type of M.2 SSD used, either the F-ADP-M.2-SATA or F-ADP-M.2-USB will need to be used.

Depending on the Logicube product, these adapters can be used in the following positions:

- **Talon Ultimate**
  - F-ADP-M.2-SATA – SAS_S1, SAS_S2 (with purchase of the Multi-Task option), D1, D2.
  - F-ADP- M.2-USB – USB_S1, USB_D1

- **ZClone Xi**
  - F-ADP-M.2-SATA – M, T1 through T5, T6 through T9 (with purchase of the Expansion Kit)
  - F-ADP- M.2-USB – U1, U2, U3

- **ZXi-Forensic**
  - F-ADP-M.2-SATA – S1 through S3, D1 through D3, D4 through D6 (with purchase of the Expansion Kit)
  - F-ADP- M.2-USB – U1, U2, U3

- **SuperSonix-NG**
  - F-ADP-M.2-SATA – SAS_M1, SAS_M2, SAS_D1, SAS_D2.
  - F-ADP- M.2-USB – USB_M1, USB_T1

- **ZX-Tower**
  - F-ADP-M.2-SATA – T1 through T8 with the purchase of the SATA/SAS Extension Adapter (F-ADP-SATA-X-ZC)
  - F-ADP- M.2-USB – U1 through U4

- **WriteProtect DESKTOP and WriteProtect BAY**
  - F-ADP-M.2-SATA – SAS 1, SAS 2
  - F-ADP- M.2-USB – USB 3.0

5.2 M.2 SATA based SSDs

M.2 SATA based SSDs require the M.2 to SATA Adapter (F-ADP-M.2-SATA) which connects directly to any of the SAS/SATA cables supplied with the Logicube device.

1. Connect the SSD to the M.2 to SATA Adapter (F-ADP-M.2-SATA).
2. Connect M.2 to SATA Adapter to the cable that is connected to the desired SAS/SATA port on the Logicube device (or connect the adapter to the cable, then the cable to the Logicube device).
## 5.1 M.2 PCIe AHCI based SSDs

M.2 PCIe AHCI based SSDs require the F-ADP-M.2-USB adapter and can be connected to any of the available USB 3.0 ports on the Logicube device.

1. Using the provided screwdriver (or a compatible screwdriver) remove the two screws on the side where the USB micro-B port is located.

2. Remove the face plate from the external enclosure.

3. Remove the M.2 adapter board from the external enclosure.

4. Connect the M.2 PCIe AHCI SSD to the M.2 adapter board.

5. Place the M.2 adapter board back inside the external enclosure.

6. Place the two screws back and tighten them in place.

7. Connect the included micro USB 3 cable (or any micro USB 3 cable) to the adapter and to the supported Logicube device. The Logicube device should now see the M.2 AHCI SSD.