INTRODUCTION

This SFF-8643 PCIe 4X adapter is designed for connecting the high performance 2.5" NVMe U.2 (SFF-8639) SSD to a PCIe 4-lane slot in a system via a SFF-8643 cable. The U.2 SSD could in loaded onto a backplane that has the SFF-8643 connector to interface with Adapter, allowing the U.2 SSD to be used like a drive cartridge.
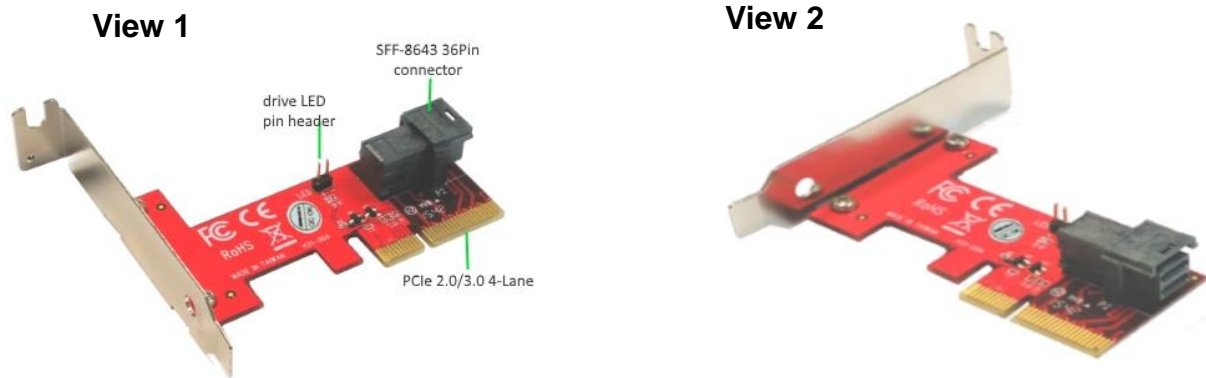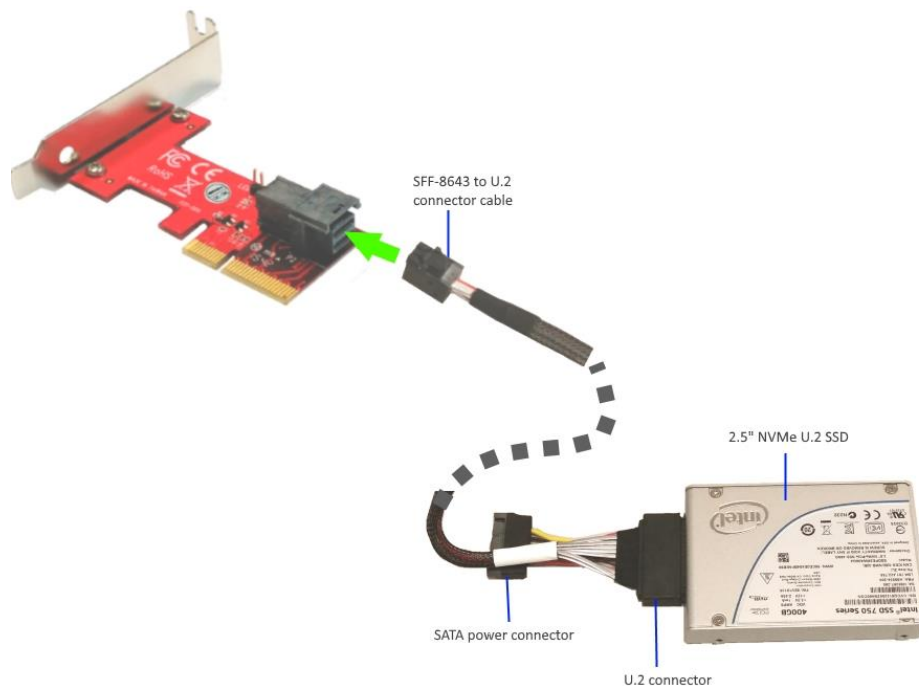
View 1

View 2

Illustration of connecting the 2.5" NVMe U.2 SSD via a SFF 8643 cable

Note: The 2.5" NVMe U.2 SSD and the SFF-8643 cable shown above are for illustration purpose and are not part of this converter.

FEATURES

- Connect SFF-8643 to a PCIe 4X slot
- Allow 2.5" NVMe U.2 (SFF-8639) SSD to connect to system via SFF-8643 cable
- Maximum throughput:

    - 40 Gbps when installed into a PCIe 3.0 4-lane slot
    - 20 Gbps when installed into a PCIe 2.0 4-lane slot
    - 10 Gbps when installed into a PCIe 1.0 4-lane slot

- No drivers required for this converter
- Industrial operating temperature: -40 °C to + 85 °C
- OS requirement for NVMe SSD: 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

Note:

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

SPECIFICIATIONS

- One   36-pin SFF-8643 connector
- PCIe 4-lane card
- Compatible with PCIe 3.0, 2.0 or 1.0
- Dimension (L x W x H): ~ 80 x 28.5 x 16 mm. (3.15 x 1.12 x 0.63 in.)
- Weight: ~ 27 gm (0.95 oz.)
- 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%
- RoHS compliant