HighPoint SSD7000 Series & HPE Z640 Workstation

Compatibility Report

Last Update: 21/10/08

Version: **V1.00**

Contents

1. Hardware:

a. HighPoint Product:

SSD7000 Series, SSD7500 Series, SSD6200 Series, SSD6540 Series

b. Host Platform or External Device:

HPE Z640 Workstation

2. Compatibility Status:

Compatible (Boot & Data RAID)

3. Description:

The HPE Z640 Workstation platform is no longer in production, but is capable of supporting HighPoint SSD7000 and SSD6200 series NVMe RAID controllers.

SSD7500 series controllers can also be used with this platform, but will be unable to operate at full speed, as the platform only provides PCIe 3.0 connectivity. The SSD6540 series NVMe RAID enclosures utilize a PCIe Gen3 x16 NVMe HBA for external connectivity, which appear to be compatible with this platform.

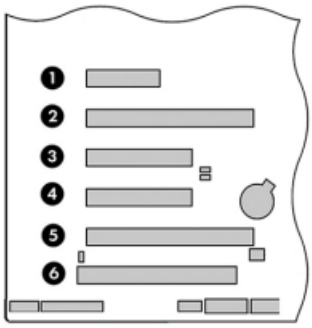
A Cross-Sync configuration may be possible, but is not recommended, as this would require that the customer limit the GPU to PCIe 3.0 x8 (the GPU would also have to be moved to a different slot). The platform utilizes the Intel C612 chipset (Intel 600 based systems are known to be compatible with HighPoint NVME products).

The motherboard BIOS includes UEFI support, and provides option ROM settings for UEFI and legacy devices.

4. Compatibility Details:

a. PCIe Host Interface:

The HPE Z640 Workstation platform utilizes a PCIe Gen3 (PCIe 3.0) host interface, and provides up to two (x2) PCIe 3.0 x16 (x16 electrical) slots.



Slot	Type	Mechanical compatibility	Electrical compatibility
1	PCIe2 x4 (1)	x4	x1
2	PCIe3 x16	x16	x16
3	PCIe2 x8 (4)	x8	x4
4	PCIe3 x8	x8	x8
5	PCIe3 x16	x16	x16
6	PCI 32/33	PCI	PCI

Reference (Maintenance Guide – Page 52):

http://h10032.www1.hp.com/ctg/Manual/c04823811.pdf

b. Boot RAID Support (NVMe arrays used to boot a system):

HPE Z640 Workstation platforms can support bootable NVMe arrays. The BIOS appears to provide UEFI option ROM support, and has a Secure Boot option (which can bedisabled by users).

c. Data RAID Support (NVMe arrays used for data storage):

There are no apparent restrictions for data-only storage configurations.

5. Manufacturer Reference Material

a. Product Website: https://support.hp.com/us-en/product/hp-z640-workstation/6978835

b. User Guide:

http://h10032.www1.hp.com/ctg/Manual/c04856247.pdf

c. Specifications:

https://support.hp.com/us-en/product/hp-z640-workstation/6978835/document/c04496994

d. Resources:

The following link includes all current HPE Z640 Data sheets, user guides and manuals:
https://support.hp.com/us-en/product/hp-z640-workstation/6978835/document/c04496994