

HighPoint SSD7000 Series & Motherboard Supermicro X12SPW-TF

Compatibility Report

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1. Hardware:

a. HighPoint Product:

SSD7500 Series and SSD7100 Series

b. Host Platform or External Device:

Supermicro X12SPW-TF

2. Compatibility Status:

Compatible (Boot & Data RAID)

3. Description:

Supermicro X12SPW-TF workstation platforms are capable of supporting HighPoint SSD7000 series NVMe RAID controllers. SSD7500 series controllers can also be used with this platform, and will be able to operate at full speed, as the systems provides PCIe 4.0 connectivity.

The current motherboards used by X12SPW-TF workstations utilize the Intel C621A chipset (Intel C621 based systems are known to be compatible with HighPoint NVME products). The motherboard's BIOS includes UEFI support, and provides option ROM settings for UEFI and legacy devices.

4. Compatibility Details:

a. PCIe Host Interface:

Supermicro X12SPW-TF platforms supports 1 PCI-E 4.0 x16 Right Riser Slot, 1 PCI-E 4.0 x32 Left Riser Slot.

Expansion Slots

PCI-E	<ul style="list-style-type: none">■ 1 PCI-E 4.0 x16 Right Riser Slot,■ 1 PCI-E 4.0 x32 Left Riser Slot
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Reference: <https://www.supermicro.com/manuals/motherboard/X12/MNL-2246.pdf> (page 15)

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

Supermicro X12SPW-TF platforms can support bootable NVMe arrays. The BIOS appears to provide UEFI option ROM support, disable secure boot and CSM.

Secure Boot

Use this feature to enable secure boot. The options are **Disabled** and **Enabled**.

Secure Boot Mode

Use this item to configure Secure Boot variables without authentication. The options are **Standard** and **Custom**.

CSM Support

This feature is for manufacturing debugging purposes.

Reference: <https://www.supermicro.com/manuals/motherboard/X12/MNL-2246.pdf>
(page 114)

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://www.supermicro.com/en/products/motherboard/X12SPW-TF>

b. User Guide:

<https://www.supermicro.com/manuals/motherboard/X12/MNL-2246.pdf>