

SSD7500/ 6200 /7000 Series & Asus Prime X299-A
Compatibility Report

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1. Hardware:

a) HighPoint Product:

SSD7500/ 6200 /7000 Series

b) Host Platform or External Device:

Asus Prime X299-A

2. Compatibility Status:

Compatible (Boot & Data RAID)

3. Description:

Asus Prime X299-A are capable of supporting HighPoint SSD7500/ 6200 /7000 NVMe RAID controllers. SSD7000/6200 series can run out of full performance, but the SSD7500 series Can't get the maximum performance, only the performance of PCIe3.0.

The current motherboards used by Asus Prime X299-A utilize Intel X299 chipset.

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

4. Compatibility Details:

a. PCIe Host Interface:

Asus Prime X299-A supports PCIe Gen3, and provides three PCIe 3.0 x16 slots. Half-height supported by default.

Expansion slots	44-Lane CPU
	3 x PCI Express 3.0/2.0 x16 slots (single@x16, dual@x16/x16, triple@x16/x16/x8 mode) 2 x PCI Express 3.0/2.0 x4 slots (PCIEx4_1 max. at x1 mode, PCIEx4_2 max. at x4 mode, compatible with PCIe x1 and x4 devices)* 1 x PCI Express 3.0/2.0 x1 slot (compatible with PCIe x1 devices)**
	28-Lane CPU
	3 x PCI Express 3.0/2.0 x16 slots (single@x16, dual@x16/x8 mode) 2 x PCI Express 3.0/2.0 x4 slots (PCIEx4_1 max. at x1 mode, PCIEx4_2 max. at x4 mode, compatible with PCIe x1 and x4 devices)* 1 x PCI Express 3.0/2.0 x1 slot (compatible with PCIe x1 devices)**
	16-Lane CPU
	3 x PCI Express 3.0/2.0 x16 slots (single@x16, dual@x8/x8 mode) 2 x PCI Express 3.0/2.0 x4 slots (PCIEx4_1 max. at x1 mode, PCIEx4_2 max. at x4 mode, compatible with PCIe x1 and x4 devices)* 1 x PCI Express 3.0/2.0 x1 slot (compatible with PCIe x1 devices)**
	* PCIe4_1 shares bandwidth with PCIe16_3 when using 28-lane & 16-lane CPUs. PCIe4_2 shares bandwidth with SATA6G_5/6/7/8 ports. It is disabled by default. ** PCIe1_1 shares bandwidth with USB 3.1 Gen 2 front panel connector. It is disabled by default.

Reference: [E12782_PRIME_X299-A_UM_WEB.pdf \(asus.com\)](#) (page ix)

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

Asus Prime X299-A can support bootable NVMe arrays. The BIOS appears to provide UEFI option ROM support.

Boot Devices Control

This item allows you to select the type of devices that you want to boot.

Configuration options: [UEFI and Legacy OPROM] [Legacy OPROM only] [UEFI only]

Boot from Network Devices

This item allows you to select the type of network devices that you want to launch.

Configuration options: [Ignore] [Legacy only] [UEFI driver first]

Boot from Storage Devices

This item allows you to select the type of storage devices that you want to launch.

Configuration options: [Ignore] [Legacy only] [UEFI driver first]

Boot from PCI-E/PCI Expansion Devices

This item allows you to select the type of PCI-E/PCI expansion devices that you want to launch.

Configuration options: [Legacy only] [UEFI driver first]

[E12782_PRIME_X299-A_UM_WEB.pdf \(asus.com\)](#) (page3-21)

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:

[PRIME X299-A | Motherboards | ASUS USA](#)

b. User Guide:

[E12782_PRIME_X299-A_UM_WEB.pdf \(asus.com.cn\)](#)

6. List of ASUS RAID Controller types for ASUS systems

No recommended product found in the user manual.