SSD7500/ 6200 /7000 Series& Motherboard Dell PowerEdge T630

Compatibility Report

Last Update:3/18/22

Version: v1.00

Contents

1. Hardware:

a. HighPoint Product:

SSD7500/ 6200 /7000 Series

b. Host Platform or External Device:

Dell PowerEdge T630

2. Compatibility Status:

Compatible (Boot & Data RAID)

3. Description:

Dell PowerEdge T630 workstation platforms 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 only get half the performance.
The current motherboards used by Dell PowerEdge T630 utilize the Intel C610 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:

Dell PowerEdge T630 supports PCIe Gen3, and provides four PCIe 3.0 x16 (x16 electrical) slots. Support full height.

The following table describes the supported expansion cards:

Table 34. Supported PCI express generation 3 expansion cards

PCIe Slot	Processor Connection	Height	Length	Link Width	Slot Width
1 (Gen3)	Processor 1	Standard Height	Full Length	x16	x16
2 (Gen2)	Platform Controller Hub	Standard Height	Full Length*	x4	x8
3 (Gen3)	Processor 1	Standard Height	Full Length	x16	x16
4 (Gen3)	Processor 2	Standard Height	Half Length	x8	x8
5 (Gen2)	Processor 2	Standard Height	Full Length*	x4	x8
6 (Gen3)	Processor 2	Standard Height	Full Length	x16	x16
7 (Gen3)	Processor 2	Standard Height	Full Length	x16	x16
8 (Internal PERC Slot)	Processor 1	Standard Height	Half Length	x8	x8

*PCIe Generation 2 expansion card.
(i) **NOTE:** To use PCIe slots 4, 5, 6, and 7, both the processors must be installed.

Reference: Dell PowerEdge T630 Owner's Manual (page118)

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

Dell PowerEdge T630 can support bootable NVMe arrays. The BIOS appears to provide UEFI option ROM support.

Slot Disablement Enables or disables the available PCIe slots on your system. The slot disablement feature controls the configuration of PCIe cards installed in the specified slot. Slots must be disabled only when the installed peripheral card prevents booting into the operating system or causes delays in system startup. If the slot is disabled, both the Option ROM and UEFI drivers are disabled.

Dell PowerEdge T630 Owner's Manual (page60)

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:

Support for PowerEdge T630 | Documentation | Dell US

b. User Guide:

Dell PowerEdge T630 Owner's Manual

Dell-PowerEdge-T630-Spec-Sheet.pdf

6. List of PowerEdge RAID Controller (PERC) types for Dell EMC systems

List:

RAID controllers	Internal controllers: PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P Internal HBA (Non-RAID): HBA330 External HBAs (RAID): PERC H830	
Drive bays	Internal hard drive bay and hot-plug backplane: Up to 8 x 3.5" SAS, SATA, nearline SAS, SSD, PCIe SSD drives with optional flex bay Up to 18 x 3.5" SAS, SATA, nearline SAS, SSD drives	Up to 16 x 2.5" S/ optional flex bay Up to 32 x 2.5" S

List of PowerEdge RAID Controller (PERC) types for Dell EMC systems | Dell US(page2)

Example：SSD7204: 7.68" (W) x 4.38" (H) x 0.73" (D)

H730P Adapter：Support for PowerEdge RAID Controller H730P | Drivers & Downloads | Dell US