

**SSD7500/ 6200 /7000 Series& Motherboard Dell PowerEdge  
R340**

**Compatibility Report**

Last Update:3/25/22

Version: v1.00

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## 1. Hardware:

### a. HighPoint Product:

SSD6200 Series: 6202/6202A/6204/6204A

SSD7000 Series: 7204 /7202

It is not recommended to use SSD7500 series products

### b. Host Platform or External Device:

Dell PowerEdge R340

## 2. Compatibility Status:

**Compatible (Boot & Data RAID)**

## 3. Description:

DELL R340 are capable of supporting HighPoint SSD6200 /7000 Series NVMe RAID controllers. It is not recommended to use SSD7500 series products. SSD7000/6200 series can run out of full performance.

The current motherboards used by Dell R340 utilize the Intel C246 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 R340 platforms supports PCIe Gen3, and provides one PCIe 3.0 x8 slot.

Support full-height.

### Expansion card riser specifications

The Dell EMC PowerEdge R340 system supports up to two PCI express (PCIe) generation 3.

**Table 6. Expansion card slots supported on the system board**

PCIe slot	Riser	PCIe slot height	PCIe slot length	Link width	Slot width
Slot 1	x8 PCIe	Low-profile	Half-length	x4	x8
Slot 2	x16 PCIe	Low-profile/Full-height	Half-length	x8	x16
Internal PERC	x8 PCIe	Low-profile	Half-length	x8	x8

Reference: [Dell EMC PowerEdge R340 Technical Specifications Guide](#) (page 6)

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

DELL R340 platforms 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 the 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. Only slots that are present on the system will be available for control.

[Dell EMC PowerEdge R340 BIOS and UEFI Reference Guide \(page14\)](#)

**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:**

[PowerEdge R340 1U Rack Server for Small Business | Dell USA](#)

**b. User Guide:**

[Dell EMC PowerEdge R340 Technical Specifications Guide](#)

[Dell EMC PowerEdge R340 Technical Guide](#)

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

Feature	PowerEdge R330	PowerEdge R340
Processor	<ul style="list-style-type: none"> <li>Intel Xeon® E3-1200 v6 Processor family</li> <li>Intel Pentium®</li> <li>Intel Celeron®</li> <li>Intel Core i3®</li> </ul>	<ul style="list-style-type: none"> <li>Intel Xeon® E-2100 and E-2200 Processor family</li> <li>Intel Pentium®</li> <li>Intel Celeron®</li> <li>Intel Core i3®</li> </ul>
Number of processors	<ul style="list-style-type: none"> <li>1</li> </ul>	<ul style="list-style-type: none"> <li>1</li> </ul>
Number of cores	<ul style="list-style-type: none"> <li>Up to 4 cores</li> </ul>	<ul style="list-style-type: none"> <li>Up to 8 cores</li> </ul>
L2/L3 cache	<ul style="list-style-type: none"> <li>2.0 MB per core</li> <li>Up to 8 MB</li> </ul>	<ul style="list-style-type: none"> <li>2.0 MB per core</li> <li>Up to 12 MB</li> </ul>
Chipset	<ul style="list-style-type: none"> <li>Intel C236</li> </ul>	<ul style="list-style-type: none"> <li>Intel C246</li> </ul>
Memory Module	<ul style="list-style-type: none"> <li>DDR4: 4 UDIMMs with ECC</li> <li>Speed: Up to 2400MT/s</li> <li>Min RAM: 4 GB</li> <li>Max RAM: 64 GB</li> </ul>	<ul style="list-style-type: none"> <li>DDR4: 4 UDIMMs with ECC</li> <li>Speed: Up to 2666MT/s</li> <li>Min RAM: 8GB</li> <li>Max RAM: 64 GB</li> </ul>
Hard drive bays	<ul style="list-style-type: none"> <li>4 x 3.5-inch cabled or hot plug</li> <li>8 x 2.5-inch hot plug</li> <li>2 x 1.8-inch cabled</li> </ul>	<ul style="list-style-type: none"> <li>4 x 3.5-inch hot plug</li> <li>8 x 2.5-inch hot plug</li> </ul>
Hard drive types	<ul style="list-style-type: none"> <li>Default SATA. Optional SAS</li> <li>Enterprise HDD</li> <li>Entry HDD</li> </ul>	<ul style="list-style-type: none"> <li>Default SATA. Optional SAS</li> <li>Enterprise HDD</li> <li>Entry HDD</li> </ul>
External hard drive bays	<ul style="list-style-type: none"> <li>1x slim ODD 9.5mm</li> </ul>	<ul style="list-style-type: none"> <li>1x slim ODD 9.5mm</li> </ul>
RAID controllers	<ul style="list-style-type: none"> <li>Chipset based SATA, PERC S130</li> <li>PERC H330</li> <li>PERC H730</li> <li>PERC H830</li> </ul>	<ul style="list-style-type: none"> <li>Chipset based SATA, PERC S140</li> <li>PERC H330</li> <li>PERC H730P</li> </ul>

[Dell EMC PowerEdge R340 Technical Guide\(page4\)](#)

Example:

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

H730P: [PowerEdge-RAID-Controller-H730P-Spec-Sheet.pdf \(dell.com\)](#)