

# **HighPoint SSD7000 Series & HPE ProLiant**

**ML110 Gen10+**

## **Compatibility Report**

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## Contents

|   |   |
|---|---|
| 1. Hardware: .....  | 3 |
| a. HighPoint Product: .....                                     | 3 |
| b. Host Platform or External Device: .....                      | 3 |
| 2. Compatibility Status: .....                                  | 3 |
| 3. Description: .....   | 3 |
| 4. Compatibility Details: .....                                 | 3 |
| a. PCIe Host Interface: .....                                   | 3 |
| b. Boot RAID Support (NVMe arrays used to boot a system): ..... | 4 |
| c. Data RAID Support (NVMe arrays used for data storage): ..... | 4 |
| 5. Manufacturer Reference Material .....                        | 4 |
| a. Product Website .....  | 4 |
| b. User Guide .....   | 4 |

## 1. Hardware:

### a. HighPoint Product:

SSD7000 Series, SSD7500 Series, SSD6200 Series, SSD6540 Series

### b. Host Platform or External Device:

HPE ProLiant ML110 Gen10+ Server

## 2. Compatibility Status:

**Compatible (Boot & Data RAID)**

## 3. Description:

The HPE ProLiant ML110 Gen10+ Server platform 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 systems 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. Cross-Sync configurations are possible, as the platform provides two PCIe 3.0 x16 (x16 electrical) slots.

The current motherboards used by ML110 Servers utilize the Intel C621 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 ProLiant ML110 Gen10+ Server platform utilizes a PCIe Gen3 (PCIe 3.0) host interface, and provides two (x2) PCIe 3.0 x16 (x16 electrical) slots:

#### Expansion Slots

| Slots # | Technology | Bus Width | Connector Width | Slot Form Factor                        | Notes  |
|---------|------------|-----------|-----------------|---|--------|
| 5       | PCIe 3.0   | X4        | X8              | Full-height, half-length slot           | PCH    |
| 4       | PCIe 3.0   | X16       | X16             | Full-height, full-length slot           | Proc 1 |
| 3       | PCIe 3.0   | X8        | X8              | Full-height, half-length slot           | Proc 1 |
| 2       | PCIe 3.0   | X4        | X8              | Full-height, half-length slot           | Proc 1 |
| 1       | PCIe 3.0   | X16       | X16             | Full-height, ¾ length (up to 9.5") Slot | Proc 1 |

#### Notes:

- Bus Width Indicates the number of physical electrical lanes running to the connector.
- Although the Speed of slot is designed for 32Gb/s, the actual running speed will be lower than it was designed. Hence Slot 2 and Slot 5 will be least recommended for usage.

## Reference (Quick Specs):

<https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00021851enw#>

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

HPE ProLiant ML110 Gen10+ Server platforms can support bootable NVMe arrays. The BIOS appears to provide UEFI option ROM support, and has a Secure Boot option (which can be enabled/disabled 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://buy.hpe.com/us/en/servers/tower-servers/proliant-ml100-servers/proliant-ml110-server/hpe-proliant-ml110-gen10-server/p/1010192782>

**b. User Guide:** The following link includes all current HPE ProLiant ML110 Data sheets, user guides and manuals:

<https://www.hpe.com/psnow/product-documentation?oid=1010192782&cc=us&lc=en>