

## **SSD7000 Series UEFI ROM Update Guide (PC)**

**V1.01 – May 2021**

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## Overview

This guide explains how to update SSD7000 Series NVMe RAID controllers' UEFI ROM using a PC platform.

### Prerequisites

This section describes the base hardware and software requirements for SSD7000 Series NVMe RAID Controllers.

### Update UEFI ROM

This section describes how to update the UEFI ROM using a PC.

### Troubleshooting

Please consult this section if you encounter any difficulties flashing SSD7000 Series NVMe Controller UEFI ROM. It includes descriptions and solutions for commonly reported technical issues.

### Appendix

This section describes how to collect trouble shooting information for support cases you have submitted via our Online Support Portal.

## Prerequisites

1. **NVMe Drives must be removed.** To avoid data loss, please remove all NVMe drives from the SSD7000 Series NVMe Controller.
2. **A PCIe 3.0/4.0 slot with x8 or x16 lane.** The SSD7202, SSD7502, SSD7103, SSD7505 or SSD7540 must be installed into a PCIe 3.0/4.0 slot with x8 or x16 lanes.
3. **The motherboard needs to be booted into UEFI mode.** Confirm that the motherboard boots in UEFI mode.
4. **USB flash drive: FAT32 format.** Make sure the file system of the USB flash drive is FAT32 format.

# Update UEFI ROM

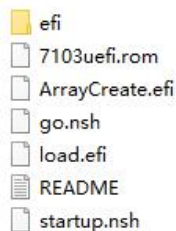
## Step 1 Prepare UEFI ROM Package

1. Unzip the SSD7000 Series NVMe Controller UEFI package to the root dir (/) of a USB flash drive (e.g. FAT32), and insert the USB flash drive into the motherboard;

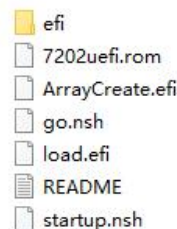
Please download UEFI software on the official website.

Product	Download Page Link
SSD7103	<a href="https://www.highpoint-tech.com/USA_new/series-ssd7103-overview.htm">https://www.highpoint-tech.com/USA_new/series-ssd7103-overview.htm</a>
SSD7202	<a href="https://www.highpoint-tech.com/USA_new/series-ssd7202-overview.htm">https://www.highpoint-tech.com/USA_new/series-ssd7202-overview.htm</a>
SSD7505	<a href="https://www.highpoint-tech.com/USA_new/series-ssd7505-overview.htm">https://www.highpoint-tech.com/USA_new/series-ssd7505-overview.htm</a>
SSD7502	<a href="https://www.highpoint-tech.com/USA_new/series-ssd7502-overview.html">https://www.highpoint-tech.com/USA_new/series-ssd7502-overview.html</a>
SSD7540	<a href="https://www.highpoint-tech.com/USA_new/series-ssd7540-overview.htm">https://www.highpoint-tech.com/USA_new/series-ssd7540-overview.htm</a>

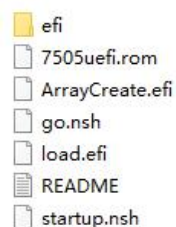
### SSD7103:



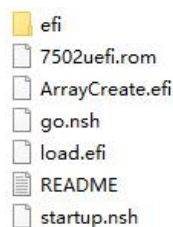
### SSD7202:



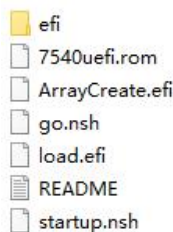
### SSD7505:



### SSD7502:

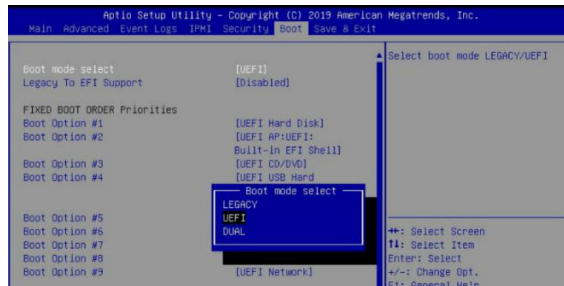


### SSD7540:

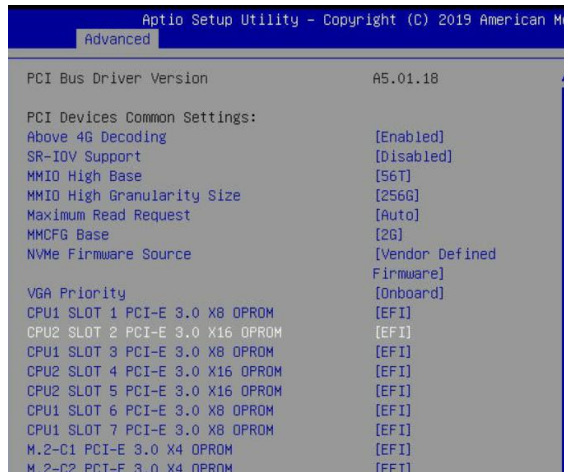


## Step 2 Check System EFI Settings

1. Insert the SSD7000 series NVMe controller into the motherboard, power on the system, and enter the BIOS.
2. Change the UEFI settings (Example: SuperMicro X11DPi-NT motherboard):
  - a. Set 'Boot mode select' to 'UEFI':



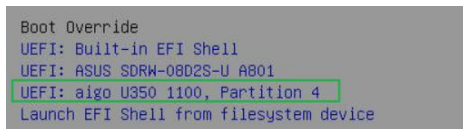
- b. Set the Slot where the SSD7000 Series NVMe Controller is located to 'EFI'.



3. Save changes and reboot.

### Step 3 Flash the UEFI ROM

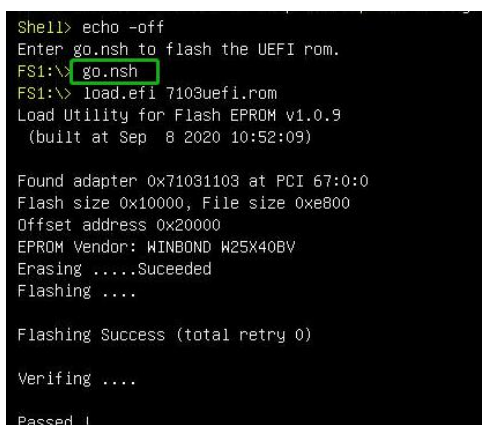
1. Boot from the UEFI USB flash drive and enter the UEFI interface;



2. Enter the following command to flash the UEFI ROM to the SSD7000 NVMe Controller:  
**go.nsh**

When the message 'Passed' appears, the flash was successful.

#### SSD7103:



**SSD7202:**

```
Shell> echo -off
Enter go.nsh to flash the UEFI rom.
FS1:\> go.nsh
FS1:\> load.efi 7202uefi.rom
Load Utility for Flash EPROM v1.0.9
(built at Sep  8 2020 10:52:09)

Found adapter 0x72021103 at PCI 28:0:0
Flash size 0x10000, File size 0xe800
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
```

**SSD7502:**

```
Shell> echo -off
Enter go.nsh to flash the UEFI rom.
FS1:\> go.nsh
FS1:\> load.efi 7502uefi.rom
Load Utility for Flash EPROM v1.0.9
(built at Sep  8 2020 10:52:09)

Found adapter 0x75051103 at PCI 69:0:0
Flash size 0x10000, File size 0xe800
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
```

**SSD7505:**

```
Shell> echo -off
Enter go.nsh to flash the UEFI rom.
FS1:\> go.nsh
FS1:\> load.efi 7505uefi.rom
Load Utility for Flash EPROM v1.0.9
(built at Sep  8 2020 10:52:09)

Found adapter 0x75051103 at PCI 69:0:0
Flash size 0x10000, File size 0xe800
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
```

### SSD7540:

```
Shell> echo -off
Enter go.nsh to flash the UEFI rom.
FS1:\> go.nsh
FS1:\> load.efi 7540uefi.rom
Load Utility for Flash EPROM v1.0.9
(built at Sep  8 2020 10:52:09)

Found adapter 0x75401103 at PCI 75:0:0
Flash size 0x10000, File size 0xe800
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
```

3. Reboot to complete the update process.



## Troubleshooting

### Problem 1: No supporting host adapter is found

When using the 'go.nsh' command, the procedure does not start and the message '**No supporting host adapter is found**' is displayed:

```
Shell> echo -off
Enter go.nsh to flash the UEFI rom.
FS1:\> go.nsh
FS1:\> load.efi 7103uefi.rom
Load Utility for Flash EPROM v1.0.9
(built at Sep  8 2020 10:52:09)
No supporting host adapter is found.
FS1:\> _
```

### Solution:

Shutdown the system and move the SSD7000 controller to another PCIe slot, and repeat the flash procedure. If the problem still occurs, please refer to the appendix for collection.

## Appendix

### Collecting SSD7000 Series UEFI information

1. Unzip the SSD7000 Series NVMe Controller UEFI package to the root dir (/) of a USB flash drive, and insert the USB flash drive into the PC.
2. Make sure the SSD7000 Series NVMe Controller is installed into a PCIe 3.0/4.0 slot with x8 or x16 lanes;
3. Boot from the UEFI USB flash drive and enter the UEFI interface;
4. At the command prompt, type the following command and press Enter:

**drivers**

```
FS0:\> drivers
```

The following information will be displayed:

```
141 0000000A D N N 1 0 FAT File System Driver Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705C0281F)
142 0000000A D N N 2 0 iSCSI Driver Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(8660F930-4B72-4597-80F9-A55AE403725F)
143 0000000A D N N 2 0 iSCSI Driver Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(0167CC04-00F7-4F21-A3EF-9E487C0CE8B)
146 0000000A ? N N 0 0 Scsi Disk Driver Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(0666E922-3740-4DCE-A062-B0172CE0CA95)
148 0000000B ? N N 0 0 Intel(R) vROC with VMD Technology 6 Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(117828F1-0A70-4BC1-8B58-9A954FE05121)
148 00000001 ? N Y 0 0 Volume Management Device Driver Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(217828C1-0A75-5BC1-7B50-91954FE0101)
14C 0001007F ? N Y 0 0 Intel(R) DCPMM 1.0.0.3455 Driver Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(5038F34E-0774-47B0-A5EF-4B94AF1A430A)
14D 0001007F ? N Y 0 0 Intel(R) DCPMM 1.0.0.3455 HII Drive Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(5038F34E-0774-47B0-A5EF-4B94AF1A430A)
184 00000010 ? N N 0 0 HMI DSM Block I/O Driver Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(25ACF158-0D61-4E64-9A49-55851E9A26C7)
185 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(SD60F367-A505-419A-B59E-2A4FF6C86F
E5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3EDF0063)
186 00000010 ? N N 0 0 null string
1FA 0000980B B N N 1 1 ASPEED Graphics Driver PciRoot(0x0)/Pci(0x1D,0x5)/Pci(0x0,0x0)
0)/Pci(0x0,0x0)/MemoryMapped(0x3,0x64272018,0x6427CA98) PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)
354 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)
1)/Pci(0x3,0x0)/Pci(0x0,0x0)/Offset(0x11038,0x341FF) PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)
355 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 1)/Pci(0x3,0x0)/Pci(0x0,0x1)/Offset(0x11038,0x341FF) PciRoot(0x3)/Pci(0x0,0x0)/Pci(0x0,0x0)
356 0000FFFF ? N N 0 0 HighPoint SSD7xxx NVMe driver PciRoot(0x3)/Pci(0x0,0x0)/Pci(0x0,0x0)
1)/Pci(0x11,0x0)/Pci(0x0,0x0)/Pci(0x3,0x0)/Pci(0x0,0x0)/Offset(0x98,0xFDFD)
FS0:\>
```

5. Save the driver information that is displayed on screen using the following command:

**drivers > drivers.txt**

```
FS0:\> drivers > drivers.txt
```

It will save drivers' log to the USB drive, as the file "**drivers.txt**".

6. At the command prompt, type the following command and press Enter:

**pci**

```
FS0:\> pci
```

The following information will be displayed:

```
00 07 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 07 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20
00 07 0E 00 ==> Data Acquisition & Signal Processing Controllers - Performance Counters
Vendor 8086 Device 2058 Prog Interface 0
00 07 0E 01 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2059 Prog Interface 0
00 07 0F 00 ==> Data Acquisition & Signal Processing Controllers - Performance Counters
Vendor 8086 Device 2058 Prog Interface 0
00 07 0F 01 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2059 Prog Interface 0
00 07 12 00 ==> Data Acquisition & Signal Processing Controllers - Performance Counters
Vendor 8086 Device 2040 Prog Interface 0
00 07 12 01 ==> Data Acquisition & Signal Processing Controllers - Performance Counters
Vendor 8086 Device 2040 Prog Interface 0
00 07 12 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 204E Prog Interface 0
00 07 15 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2018 Prog Interface 0
00 07 15 01 ==> Data Acquisition & Signal Processing Controllers - Performance Counters
Vendor 8086 Device 2088 Prog Interface 0
00 07 16 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2018 Prog Interface 0
00 07 16 01 ==> Data Acquisition & Signal Processing Controllers - Performance Counters
Vendor 8086 Device 2088 Prog Interface 0
00 07 16 04 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2018 Prog Interface 0
00 07 16 05 ==> Data Acquisition & Signal Processing Controllers - Performance Counters
Vendor 8086 Device 2088 Prog Interface 0
```

7. Save the on-screen pci information using the following command:

**pci > pci.txt**

```
FS0:\> pci > pci.txt
```

This will save the pci's log to the USB boot drive, as the file “**pci.txt**”.

8. You can now check the contents of the drivers.txt and pci.txt that were saved to the USB flash drive. The items highlighted in red below file indicate that the SSD7000 Series NVMe Controller was recognized, and the driver loaded normally:

**SSD7103:**

**drivers.txt:**

```
10F 00000000 ? N N 0 0 DNS Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(B219E140-0FFC-11E3-B956-0022681E6906)
110 00000000 ? N N 0 0 DNS Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(94734718-0B8C-47F8-96A5-E7A5AE6A2AD)
111 00000000 ? N N 0 0 DHCP Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(9F81A1F3-3B71-4324-B39A-745CB015FF)
112 00000000 ? N N 0 0 IP4 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(DC3641B8-2FAB-4ED3-BC1F-F9962A03454B)
113 00000000 ? N N 0 0 MTFTP4 Network Service Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(6D6963AB-906D-4A65-A7CA-BD40E5D6AF2B)
114 00000000 ? N N 0 0 UDP Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(58ED85CC-D830-4EB2-8742-2D4CC9854F2C)
115 00000000 ? N N 0 0 IP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(D912C7BC-F098-4367-92BA-E911083C7B8E)
116 00000000 ? N N 0 0 UDP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(95E36690-34B5-4775-A651-7E441B69089E)
117 00000000 ? N Y 0 0 DHCP Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(96F03899-9D08-49D0-A8D3-321908F6A1E)
118 00000000 ? N N 0 0 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(961578FE-B687-44C3-AF35-68C705CD2B1F)
118 00000000 D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
11C 00000000 ? N N 0 0 SCSI Driver
11D 00000000 ? N N 0 0 SCSI Driver
11F 00000000 ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(0167CCCA-D0F7-4F21-A3EF-9E6487CDE88)
120 00000000 ? N N 0 0 SCSI Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECA35)
124 00010092 ? N Y 0 0 Intel(R) DCPMM 1.0.0.3474 Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(5038F34E-0774-47A0-A5EF-4894AF1A43DA)
125 00010092 ? N Y 0 0 Intel(R) DCPMM 1.0.0.3474 HII Drive Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(5038E34E-0774-47A0-A5EF-4894AF1A43DA)
182 00000010 ? N N 0 0 AMT CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
183 00000024 B N N 1 1 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CAGFE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
184 00000010 ? N N 0 0 <null string>
2EC 00000011 B N N 1 2 HighPoint NVMe RAID driver v1.1.11 PciRoot(0x2)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x11,0x0)/Pci(0x0,0x0)/Pci(0x9,0x0)/Pci(0x0,0x0)/Offset(0x98,0xE7FF)
```

**pci.txt:**

```
00 3D 00 00 ==> Mass Storage Controller - Non-volatile memory subsystem
Vendor 18B1 Device 5016 Prog Interface 2
00 40 00 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 41 08 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 41 09 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 41 10 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 41 11 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 43 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7103 Prog Interface 0
00 5D 02 00 ==> Bridge Device - PCI/PCI bridge
Vendor 8086 Device 2032 Prog Interface 0
00 5D 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 5D 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 5D 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20
```

**SSD7202:****drivers.txt:**

```

112 00000000 ? N N 0 0 IP4 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(9FB1A1F3-3B71-4324-B39A-745CBB015FFF)
113 00000000 ? N N 0 0 MTFTP4 Network Service Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(DC3641B8-2FA8-4ED3-8C1F-F9962A03454B)
114 00000000 ? N N 0 0 UDP Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(606963A8-9060-4A65-A7CA-BD40E5D6AF2B)
115 00000000 ? N N 0 0 IP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(58ED85CC-D830-4EB2-8742-2D4CC9B54F2C)
116 00000000 ? N N 0 0 UDP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(D912C7BC-F098-4367-92BA-E911083C780E)
117 00000000 ? N N 0 0 DHCP6 Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(95E36690-348E-4775-A651-7EA41B69D89E)
118 00000000 ? N N 0 0 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-9808-4900-A8D3-3219D0FF4E1E)
119 00000000 D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B687-44C3-AF35-6BC705CD281F)
11C 00000000 ? N N 0 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CD0F93-4872-4597-8AF9-A35AE4D3725F)
11D 00000000 ? N N 0 0 iSCSI Driver
11F 00000000 ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCCA-D0F7-4F21-A3EF-9E6487CDE8B)
120 00000000 ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECA35)
124 00010092 ? N Y 0 0 Intel(R) DCPMM 1.0.0.3474 Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
125 00010092 ? N Y 0 0 Intel(R) DCPMM 1.0.0.3474 HII Drive Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038E34E-0774-47A0-A5EF-4B94AF1A43DA)
182 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
183 00000024 B N N 1 1 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
184 00000010 ? N N 0 0 <null string>
2E7 00000011 ? N N 0 0 HighPoint NVMe RAID driver v1.1.11 PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x0,0x0)/Offset(0x98,0xE7FF)

```

**pci.txt:**

```

Vendor 10B5 Device 8747 Prog Interface 0
00 19 08 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 19 09 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 19 10 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 19 11 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 1C 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7202 Prog Interface 0
00 1D 00 00 ==> Mass Storage Controller - Non-volatile memory subsystem
Vendor 18B1 Device 5016 Prog Interface 2
00 3A 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 3A 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 3A 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20

```

**SSD7502:****drivers.txt:**

```

110 00000000 ? N N 0 0 DNS Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(94734718-0B8C-47F8-96A5-EE7A5AE6A2AD)
111 00000000 ? N N 0 0 DHCP Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(9FB1A1F3-3B71-4324-B39A-745CBB015FFF)
112 00000000 ? N N 0 0 IP4 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(DC3641B8-2FA8-4ED3-8C1F-F9962A03454B)
113 00000000 ? N N 0 0 MTFTP4 Network Service Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(606963A8-9060-4A65-A7CA-BD40E5D6AF2B)
114 00000000 ? N N 0 0 UDP Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(58ED85CC-D830-4EB2-8742-2D4CC9B54F2C)
115 00000000 ? N N 0 0 IP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(D912C7BC-F098-4367-92BA-E911083C780E)
116 00000000 ? N N 0 0 UDP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(95E36690-348E-4775-A651-7EA41B69D89E)
117 00000000 ? N N 0 0 DHCP6 Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-9808-4900-A8D3-3219D0FF4E1E)
118 00000000 ? N N 0 0 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B687-44C3-AF35-6BC705CD281F)
119 00000000 D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CD0F93-4872-4597-8AF9-A35AE4D3725F)
11C 00000000 ? N N 0 0 iSCSI Driver
11D 00000000 ? N N 0 0 iSCSI Driver
11F 00000000 ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCCA-D0F7-4F21-A3EF-9E6487CDE8B)
120 00000000 ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECA35)
124 00010092 ? N Y 0 0 Intel(R) DCPMM 1.0.0.3474 Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
125 00010092 ? N Y 0 0 Intel(R) DCPMM 1.0.0.3474 HII Drive Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038E34E-0774-47A0-A5EF-4B94AF1A43DA)
182 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
183 00000024 B N N 1 1 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
184 00000010 ? N N 0 0 <null string>
2EE 00000011 B N N 1 1 HighPoint NVMe RAID driver v1.1.12 PciRoot(0x2)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x14,0x0)/Pci(0x0,0x0)/Offset(0x98,0xE7FF)

```

**pci.txt:**

```

00 40 00 00 ==> Mass Storage Controller - Non-volatile memory subsystem
Vendor 18B1 Device 5016 Prog Interface 2
00 43 00 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 44 14 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 44 15 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 45 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7505 Prog Interface 0
00 5D 02 00 ==> Bridge Device - PCI/PCI bridge
Vendor 8086 Device 2032 Prog Interface 0
00 5D 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 5D 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 5D 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20
00 5D 0E 00 ==> Data Acquisition & Signal Processing Controllers - Performance Counters
Vendor 8086 Device 2058 Prog Interface 0

```



**SSD7505:****drivers.txt:**

```

110 00000000 ? N N 0 0 DNS Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(94734718-08BC-47F8-96A5-EE7A5AE6A2AD)
111 0000000A ? N N 0 0 DHCP Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(9F81A1F3-3B71-4324-B39A-745CB0015FFF)
112 0000000A ? N N 0 0 IP4 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0C364188-2FA8-4ED3-BC1F-F9962A034548)
113 0000000A ? N N 0 0 MTFTP4 Network Service Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(6D6963A8-906D-4A65-A7CA-BD40E506AF28)
114 0000000A ? N N 0 0 UDP Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(58ED05CC-D030-4EB2-8742-2DACC9B54F2C)
115 0000000A ? N N 0 0 IP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0912C7DC-F098-4367-92BA-E911083C780E)
116 0000000A ? N N 0 0 UDP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(95E3669D-348E-4775-A651-7EA41B69D89E)
117 0000000A ? N N 0 0 DHCP6 Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-98D8-490D-A8D3-3219D0FF4E1E)
118 0000000A ? N N 0 0 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705CD2B1F)
119 0000000A D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
11C 0000000A ? N N 0 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCC4-D0F7-4F21-A3EF-9E6487DCCE8B)
11D 0000000A ? N N 0 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECC3A5)
11F 0000000A ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
120 0000000A ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
124 00010D92 ? N Y 0 0 Intel(R) DCPMM 1.0.0.3474 Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
125 00010D92 ? N Y 0 0 Intel(R) DCPMM 1.0.0.3474 HII Drive Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
182 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
183 00000024 B N N 1 1 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
184 00000010 ? N N 0 0 <null string>
2EF 00000011 B N N 1 2 HighPoint NVMe RAID driver v1.1.11 PciRoot(0x2)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x14,0x0)
/Pci(0x0,0x0)/Offset(0x98,0xE7FF)

```

**pci.txt:**

```

Vendor 1000 Device C010 Prog Interface 0
00 44 14 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 44 15 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 45 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7505 Prog Interface 0
00 47 00 00 ==> Mass Storage Controller - Other mass storage controller
Vendor 1000 Device C010 Prog Interface 0
00 5D 02 00 ==> Bridge Device - PCI/PCI bridge
Vendor 8086 Device 2032 Prog Interface 0
00 5D 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 5D 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 5D 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20

```

**SSD7540:****drivers:**

```

115 0000000A ? - - - - - IP6 Network Service Driver Ip6Dxe
116 0000000A ? - - - - - UDP6 Network Service Driver Udp6Dxe
117 0000000A ? - - - - - DHCP6 Protocol Driver Dhcp6Dxe
118 0000000A ? - - - - - MTFTP6 Network Service Driver Mttftp6Dxe
119 0000000A D - - - - - FAT File System Driver Fat
11C 0000000A ? - - - - - iSCSI Driver IScsiDxe
11D 0000000A ? - - - - - iSCSI Driver IScsiDxe
11F 0000000A ? - - - - - SCSI Bus Driver ScsiBus
120 0000000A ? - - - - - Scsi Disk Driver ScsiDisk
124 00010D92 ? - X - - - Intel(R) DCPMM 1.0.0.3474 Driver FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
125 00010D92 ? - X - - - Intel(R) DCPMM 1.0.0.3474 HII Drive FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
182 00000010 ? - - - - - AMI CSM Block I/O Driver CsmBlockIo
183 00000024 B - - - - - 1 BIOS[INT10] Video Driver CsmVideo
184 00000010 ? - - - - - <null string>
2FB 00000011 D - - - 8 - HighPoint NVMe RAID driver v1.1.11 Offset(0x98,0xE7FF)

```

**pci.txt:**

```

00 44 08 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 44 0C 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 49 00 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 4A 14 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 4A 15 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 4B 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7540 Prog Interface 0
00 4D 00 00 ==> Mass Storage Controller - Other mass storage controller
Vendor 1000 Device C010 Prog Interface 0
00 5D 02 00 ==> Bridge Device - PCI/PCI bridge
Vendor 8086 Device 2032 Prog Interface 0
00 5D 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 5D 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 5D 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20

```

If you fail to update SSD7000 Series NVMe Controller UEFI ROM, please submit a support ticket using our [Online Support Portal](#), include a description of the problem in as much detail as possible, and upload the **driver.txt** & **pci.txt** information.