

SSD7000 Series UEFI ROM Update Guide (PC)

V1.00 – August 2020

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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, SSD7103, SSD7105 or SSD7505 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	https://highpoint-tech.com/USA_new/series-ssd7103-download.htm
SSD7202	https://highpoint-tech.com/USA_new/series-ssd7202-download.htm
SSD7105	https://highpoint-tech.com/USA_new/series-ssd7105-download.htm
SSD7505	https://highpoint-tech.com/USA_new/series-ssd7500-download.htm

SSD7103:

- efi
- 7103uefi.rom
- ArrayCreate.efi
- load.efi
- README
- SSD7103.nsh
- startup.nsh

SSD7202:

- efi
- 7202uefi.rom
- ArrayCreate.efi
- load.efi
- README
- SSD7202.nsh
- startup.nsh

SSD7105:

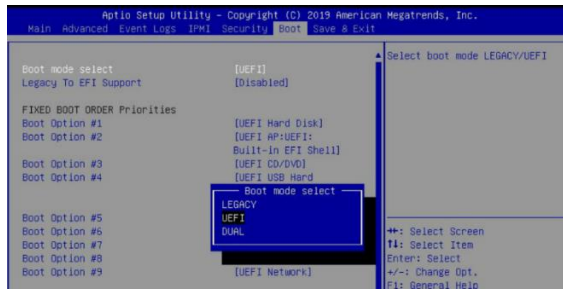
- efi
- 7105uefi.rom
- ArrayCreate.efi
- load.efi
- README
- SSD7105.nsh
- startup.nsh

SSD7505:

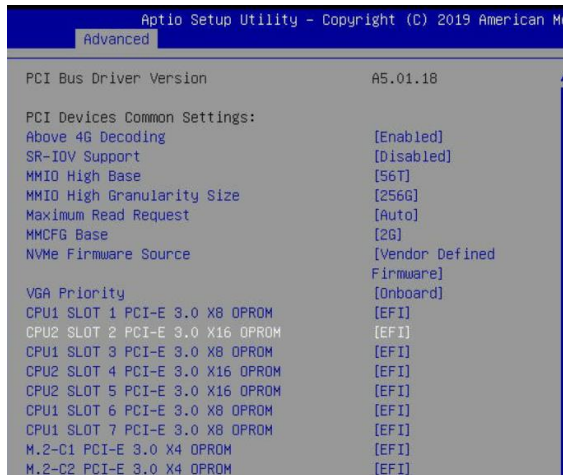
- efi
- 7505uefi.rom
- ArrayCreate.efi
- load.efi
- README
- SSD7505.nsh
- startup.nsh

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':



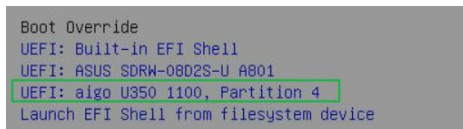
- b. Set the Slot where the SSD7000 Series NVMe Controller is located to 'EFI'.



3. Save changes and reboot.

Step 3 Flash the UEFI ROM

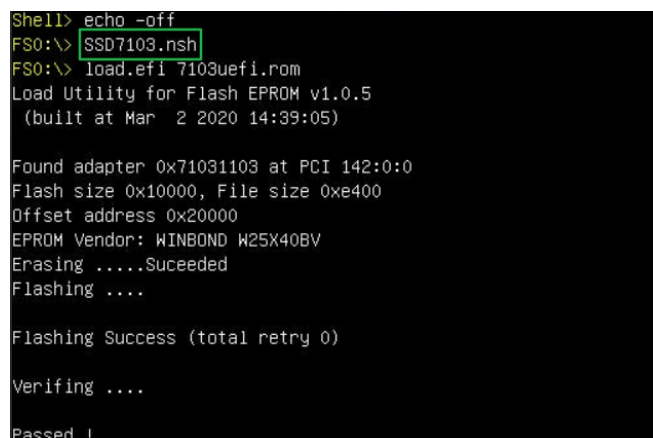
1. Boot from the UEFI USB flash drive and enter the UEFI interface;



2. Enter the following command to flash the UEFI ROM to the SSD7000 NVMe Controller:
SSD7xxx.nsh

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

SSD7103:



SSD7202:

```
Shell> echo -off
FS0:\> SSD7202.nsh
FS0:\> load.efi 7202uefi.rom
Load Utility for Flash EPROM v1.0.5
(built at Mar 12 2020 13:34:24)

Found adapter 0x72021103 at PCI 138:0:0
Flash size 0x10000, File size 0xe200
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
```

SSD7105:

```
Shell> echo -off
FS0:\> SSD7105.nsh
FS0:\> load.efi 7105uefi.rom
Load Utility for Flash EPROM v1.0.7
(built at Jul 16 2020 18:40:15)

Found adapter 0x71051103 at PCI 140:0:0
Flash size 0x10000, File size 0xea00
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
```

SSD7505:

```
Shell> echo -off
FS0:\> SSD7505.nsh
FS0:\> load.efi 7505uefi.rom
Load Utility for Flash EPROM v1.0.6
(built at May 13 2020 17:21:35)

Found adapter 0x75051103 at PCI 144:0:0
Flash size 0x10000, File size 0xea00
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 'SSD7xxx.nsh' command, the procedure does not start and the message '**No supporting host adapter is found**' is displayed:

```
FS0:\> SSD7103.nsh
FS0:\> load.efi 7103uefi.rom
Load Utility for Flash EPROM v1.0.4
(built at Apr 28 2019 16:51:40)
No supporting host adapter is found.
FS0:\>
```

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(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(961578FE-B687-44C3-AF35-6BC705CD281F)
142 0000000A D N N 2 0 SCSI Driver Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(86620F93-4B72-4937-88F9-A859E403729F)
143 0000000A D N N 2 0 SCSI Driver Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(0167CDD4-00F7-4F21-A3EF-9E6487C0CE8B)
144 0000000A ? N N 0 0 Scsi Disk Driver Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(0866E922-3740-4DCE-8062-B012CEDDA95)
145 0000000B ? N N 0 0 Intel(R) IROC with VMD Technology 6 Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(117828F1-0A70-48C1-8858-96954FED5121)
146 00000001 ? N Y 0 0 Volume Management Device Driver Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(217828C1-0A75-5BC1-7859-91954FED0101)
147 0001007F ? N Y 0 0 Intel(R) DCMM 1.0.0.3455 Driver Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(5038F34E-0774-4780-A5EF-4B34AF1A43D4)
148 0001007F ? N Y 0 0 Intel(R) DCMM 1.0.0.3455 HII Drive Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(5038F34E-0774-4780-A5EF-4B34AF1A43D4)
149 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(25ACF158-0061-4E64-9A49-55851E3A26C7)
14A 00000024 ? N N 0 0 BIOS [INT10] Video Driver Fv(S060F367-A505-419A-859E-2A4FF6C86F
E5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3E0F0063)
14B 00000010 ? N N 0 0 null string
14C 0000980B B N N 1 1 iSPREED Graphics Driver PciRoot(0x0)/Pci(0x1C,0x5)/Pci(0x0,0x
0)/Pci(0x0,0x0)/MemoryMapped(0x3,0x64272018,0x6427CA98)
14D 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0
)/Pci(0x3,0x0)/Pci(0x0,0x0)/Offset(0x11038,0x341FF)
14E 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0
)/Pci(0x3,0x0)/Pci(0x0,0x0)/Offset(0x11038,0x341FF)
14F 0000FFFF ? N N 0 0 HighPoint SSD7000 NVMe driver PciRoot(0x9)/Pci(0x0,0x0)/Pci(0x0,0x0
)/Pci(0x11,0x0)/Pci(0x0,0x0)/Pci(0x3,0x0)/Pci(0x0,0x0)/Offset(0x98,0xFDFE)
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 204C 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 15 02 ==> 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 02 ==> 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:

```

14A 0000000B ? N N 0 0 Intel(R) VROC with VMD Technology 6 Fv{5C60F367-A505-419A-
859E-2A4FF6CA6FE5}/FvFile{117828F1-DA7D-4BC1-8B58-9A954FED5121}
14B 00000001 ? N Y 0 0 Volume Management Device Driver Fv{5C60F367-A505-419A-
859E-2A4FF6CA6FE5}/FvFile{217828C1-DA75-5BC1-7B58-91954FED0101}
14C 00010D7F ? N Y 0 0 Intel(R) DCPMM 1.0.0.3455 Driver Fv{5C60F367-A505-419A-859E-
2A4FF6CA6FE5}/FvFile{5038F34E-0774-47A0-A5EF-4B94AF1A43DA}
14D 00010D7F ? N Y 0 0 Intel(R) DCPMM 1.0.0.3455 HII Drive Fv{5C60F367-A505-419A-859E-
2A4FF6CA6FE5}/FvFile{5038E34E-0774-47A0-A5EF-4B94AF1A43DA}
1B4 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv{5C60F367-A505-419A-859E-
2A4FF6CA6FE5}/FvFile{25ACF158-DD61-4E64-9A49-55851E9A26C7}
1B5 00000024 ? N N 0 0 BIOS{INT10} Video Driver Fv{5C60F367-A505-419A-859E-
2A4FF6CA6FE5}/FvFile{29CF55F8-B675-4F5D-8F2F-B87A3ECFD063}
1B6 00000010 ? N N 0 0 <null string>
1FA 00009803 B N N 1 1 ASPEED Graphics Driver PciRoot(0x0)/Pci(0x1C,0x0)/Pci
(0x0,0x0)/Pci(0x0,0x0)/MemoryMapped{0x3,0x54272018,0x6427CA98}
354 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci
(0x0,0x0)/Pci(0x3,0x0)/Pci(0x0,0x0)/Offset{0x11038,0x341FF}
355 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci
(0x0,0x0)/Pci(0x3,0x0)/Pci(0x0,0x1)/Offset{0x11038,0x341FF}
356 00000FFF ? N N 0 0 HighPoint SSD71xx NVMe driver PciRoot(0x9)/Pci(0x0,0x0)/Pci
(0x0,0x0)/Pci(0x11,0x0)/Pci(0x0,0x0)/Pci(0x9,0x0)/Pci(0x0,0x0)/Offset{0x98,0xFDFD}
    
```

pci.txt:

```

Vendor 10B5 Device 8747 Prog Interface 0
00 87 11 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 8B 00 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 8C 08 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 8C 09 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 8C 10 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 8C 11 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 8E 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7103 Prog Interface 0
00 AE 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 AE 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 AE 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20
00 AE 08 00 ==> Base System Peripherals - Other system peripheral
    
```

SSD7202:

drivers.txt:

```

141 0000000A D -- 1 - FAT File System Driver      Fat
142 0000000A D -- 2 - iSCSI Driver                IScsiDxe
143 0000000A D -- 2 - iSCSI Driver                IScsiDxe
145 0000000A ? - - - SCSI Bus Driver             ScsiBus
146 0000000A ? - - - Scsi Disk Driver           ScsiDisk
14A 0000000B ? - - - Intel(R) VROC with VMD Technology 6 FvFile(117828F1-DA7D-4BC1-8B58-9A954FED5121)
14B 00000001 ? - X - Volume Management Device Driver FvFile(217828C1-DA75-5BC1-7B58-91954FED0101)
14C 00010D7F ? - X - Intel(R) DCPMM 1.0.0.3455 Driver FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
14D 00010D7F ? - X - Intel(R) DCPMM 1.0.0.3455 Hill Drive FvFile(5038E34E-0774-47A0-A5EF-4B94AF1A43DA)
1B4 00000010 ? - - - AMI CSM Block I/O Driver      CsmBlockIo
1B5 00000024 ? - - - BIOS[INT10] Video Driver      CsmVideo
1B6 00000010 ? - - - <null string>
1FA 00009803 B - - 1 1 ASPEED Graphics Driver    MemoryMapped
(0x3,0x6425D018,0x64267A98)
34F 02040500 B - X 1 1 Intel(R) 40GbE 2.4.05      Offset(0x11038,0x341FF)
350 02040500 B - X 1 1 Intel(R) 40GbE 2.4.05      Offset(0x11038,0x341FF)
351 00000011 ? - - - HighPoint SSD7xxx NVMe driver  Offset(0x98,0xE1FF)
    
```

pci.txt:

```

00 87 08 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 87 09 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 87 10 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 87 11 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8747 Prog Interface 0
00 8A 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7202 Prog Interface 0
00 AE 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 AE 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 AE 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20
00 AE 08 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2066 Prog Interface 0
00 AE 09 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2066 Prog Interface 0
00 AE 0A 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2040 Prog Interface 0
    
```

SSD7105:

drivers.txt:

```

14A 0000000B ? N N 0 0 Intel(R) VROC with VMD Technology 6 Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(117828F1-DA7D-4BC1-8B58-9A954FED5121)
14B 00000001 ? N Y 0 0 Volume Management Device Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(217828C1-DA75-5BC1-7B58-91954FED0101)
14C 00010D7F ? N Y 0 0 Intel(R) DCPMM 1.0.0.3455 Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038F34E-0774-47A0-A5EF-4B94AF1A43DA)
14D 00010D7F ? N Y 0 0 Intel(R) DCPMM 1.0.0.3455 Hill Drive Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5038E34E-0774-47A0-A5EF-4B94AF1A43DA)
1B4 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
1B5 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3EFD063)
1B6 00000010 ? N N 0 0 <null string>
1FA 00009803 B N N 1 1 ASPEED Graphics Driver PciRoot(0x0)/Pci(0x1C,0x5)/Pci(0x0,0x0)/Pci(0x0,0x0)/MemoryMapped(0x3,0x64274018,0x6427EA98)
354 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x3,0x0)/Pci(0x0,0x0)/Offset(0x11038,0x341FF)
355 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x3,0x0)/Pci(0x0,0x1)/Offset(0x11038,0x341FF)
356 00000011 ? N N 0 0 HighPoint NVMe RAID driver v1.1.8 PciRoot(0x9)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x12,0x0)/Pci(0x0,0x0)/Offset(0x98,0xE9FF)
    
```

pci.txt:

```

00 87 09 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8749 Prog Interface 0
00 87 10 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8749 Prog Interface 0
00 87 11 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8749 Prog Interface 0
00 87 12 00 ==> Bridge Device - PCI/PCI bridge
Vendor 10B5 Device 8749 Prog Interface 0
00 8C 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7105 Prog Interface 0
00 AE 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 AE 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 AE 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20
00 AE 08 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2066 Prog Interface 0
00 AE 09 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2066 Prog Interface 0
00 AE 0A 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2040 Prog Interface 0
    
```

SSD7505:

drivers.txt:

```

14A 0000000B ? N N 0 0 Intel(R) VROC with VMD Technology 6 Fv{5C60F367-A505-419A-859E-2A4FF6CA6FES}/FvFile{117828F1-DA7D-4BC1-8B58-9A954FED5121}
14B 00000001 ? N Y 0 0 Volume Management Device Driver Fv{5C60F367-A505-419A-859E-2A4FF6CA6FES}/FvFile{217828C1-DA75-58C1-7B58-91954FED0101}
14C 00010D7F ? N Y 0 0 Intel(R) DCPMM 1.0.0.3455 Driver Fv{5C60F367-A505-419A-859E-2A4FF6CA6FES}/FvFile{5038E34E-0774-47A0-A5E1-4B94AF1A43DA}
14D 00010D7F ? N Y 0 0 Intel(R) DCPMM 1.0.0.3455 HII Drive Fv{5C60F367-A505-419A-859E-2A4FF6CA6FES}/FvFile{5038E34E-0774-47A0-A5E1-4B94AF1A43DA}
1B4 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv{5C60F367-A505-419A-859E-2A4FF6CA6FES}/FvFile{25ACF158-DD61-4E64-9A49-55851E9A26C7}
1B5 00000024 ? N N 0 0 BIOS{INT10} Video Driver Fv{5C60F367-A505-419A-859E-2A4FF6CA6FES}/FvFile{29CF5F8-8675-4F5D-8F2F-B87A3ECFD063}
1B6 00000010 ? N N 0 0 <null string>
1FA 00009803 B N N 1 1 ASPEED Graphics Driver PciRoot(0x0)/Pci(0x1C,0x5)/Pci(0x0,0x0)/Pci(0x0,0x0)/MemoryMapped(0x3,0x64250018,0x6425AA98)
357 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x3,0x0)/Pci(0x0,0x0)/Offset(0x11038,0x341FF)
358 02040500 B N Y 1 1 Intel(R) 40GbE 2.4.05 PciRoot(0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0x3,0x0)/Pci(0x0,0x1)/Offset(0x11038,0x341FF)
359 00000011 ? N N 0 0 HighPoint RocketNVMe driver PciRoot(0x9)/Pci(0x0,0x0)/Pci(0x0,0x0)/Pci(0xC,0x0)/Pci(0x0,0x0)/Pci(0x14,0x0)/Pci(0x0,0x0)/Offset(0x98,0xE9FF)
    
```

pci.txt:

```

00 89 1C 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 8E 00 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 8F 14 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 8F 15 00 ==> Bridge Device - PCI/PCI bridge
Vendor 1000 Device C010 Prog Interface 0
00 90 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 7505 Prog Interface 0
00 92 00 00 ==> Mass Storage Controller - Other mass storage controller
Vendor 1000 Device C010 Prog Interface 0
00 AE 05 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2034 Prog Interface 0
00 AE 05 02 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2035 Prog Interface 0
00 AE 05 04 ==> Base System Peripherals - PIC
Vendor 8086 Device 2036 Prog Interface 20
00 AE 08 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2066 Prog Interface 0
00 AE 09 00 ==> Base System Peripherals - Other system peripheral
Vendor 8086 Device 2066 Prog Interface 0
    
```

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.