



R7xx_RR37xx_8xx_28xx Series BIOS_UEFI ROM Update Guide (PC)

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Overview

This guide explains how to update R7xx, RR37xx, RR8xx, RR28xx Series RAID controllers' BIOS_UEFI ROM using a PC platform.

Prerequisites

This section describes the base hardware and software requirements for R7xx, RR37xx, RR8xx, RR28xx Series RAID Controllers.

Update BIOS_UEFI ROM

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

Troubleshooting

Please consult this section if you encounter any difficulties flashing R7xx, RR37xx, RR8xx, RR28xx Series RAID Controller BIOS_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. **SAS/SATA Drives must be removed.** To avoid data loss, please remove all SAS/SATA drives from the R7xx, RR37xx, RR8xx, RR28xx Series RAID Controller.
2. **A PCIe 3.0/4.0 slot with x8 or x16 lane.** The RAID controller 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 BIOS_UEFI ROM

Step 1 Prepare BIOS_UEFI ROM Package

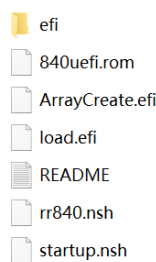
1. Unzip the R7xx, RR37xx, RR8xx, RR28xx Series RAID Controller BIOS_UEFI package to the root dir (/) of a USB flash drive (e.g. FAT32), and insert the USB flash drive into the motherboard;

Note: Currently, only **RR3720/3740** and **R710/720 v1.09** packages support the **BIOS Utility, UEFI HII and UEFI Command Line** at the same time. The latest versions on the official website of other products only support **UEFI Command Line**.

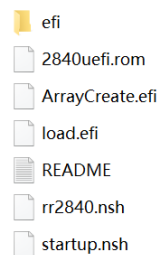
Please download UEFI software on the official website.

Product	Download Page Link
RR840	https://www.highpoint-tech.com/rr800-overview
RR2840	https://www.highpoint-tech.com/rr2800-overview
RR3720/3740/3742	https://www.highpoint-tech.com/rr3700-overview
R710/720	https://www.highpoint-tech.com/12g-sas-connectivity-hba

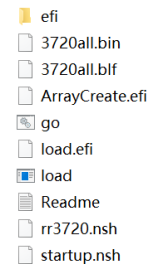
RR840:



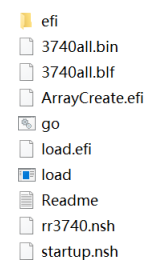
RR2840:



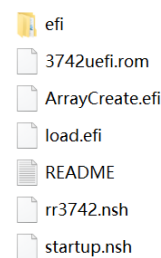
RR3720:



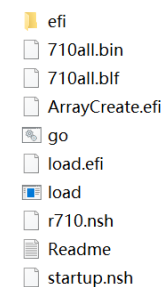
RR3740:



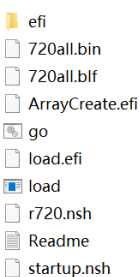
RR3742:



R710:



R720:

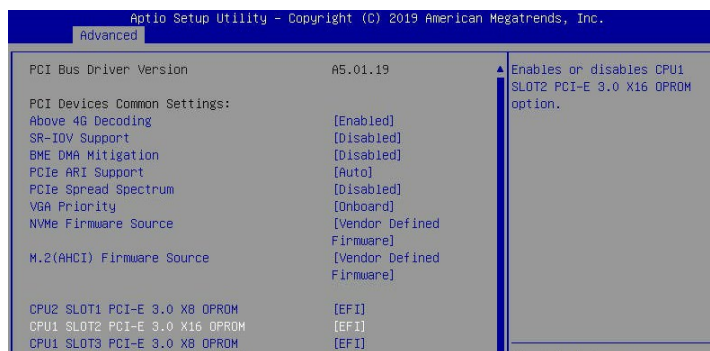


Step 2 Check System EFI Settings

1. Insert the R7xx, RR37xx, RR8xx, RR28xx series RAID controller into the motherboard, power on the system, and enter the BIOS.
2. Change the UEFI settings (Example: SuperMicro H11SDi motherboard):
 - a. Set 'Boot mode select' to 'UEFI':



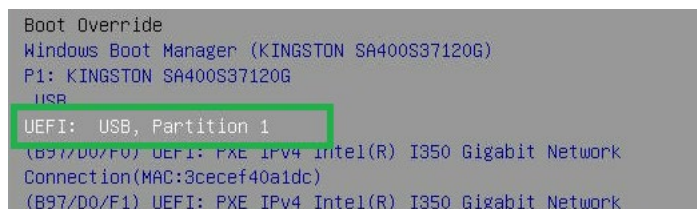
- b. Under "Advanced->PCIe/PCI/PnP Configuration->", change "CPUx Slot x PCI-E OPRM" to "EFI". "x" represents the PCIE slot assignment. For this example, the controller is installed into "CPU1 Slot 2"



3. Save changes and reboot.

Step 3 Flash the BIOS_UEFI ROM

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



2. Enter the following command to flash the BIOS_UEFI ROM to the R7xx, RR37xx, RR8xx, RR28xx RAID Controller:

rrxx.nsh/rxx.nsh

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

RR840:

```
Shell> echo -off
FS0:\> rr840.nsh
FS0:\> load.efi 840uefi.rom
Load Utility for Flash EPROM v1.1.1
(built at Jan 26 2021 13:27:20)

Set flash size to 69K
Found adapter 0x8401103 at PCI 33:0:0
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
FS0:\> _
```

RR2840:

```
Shell> echo -off
FS0:\> rr2840.nsh
FS0:\> load.efi 2840uefi.rom
Load Utility for Flash EPROM v1.1.1
(built at Jan 26 2021 13:27:20)

Set flash size to 69K
Found adapter 0x28401103 at PCI 33:0:0
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
FS0:\> _
```

RR3720:

```
Shell> echo -off
FS0:\> rr3720.nsh
FS0:\> load.efi 3720a11.blf
Load Utility for Flash EPROM v1.1.5
(built at Jul 18 2022 15:07:51)

Set flash size to 231K
Found adapter 0x37201103 at PCI 33:0:0
Offset address 0x0
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
FS0:\> _
```

RR3740:

```
Shell> echo -off
FS0:\> rr3740.nsh
FS0:\> load.efi 3740all.b1f
Load Utility for Flash EPROM v1.1.5
(built at Jul 18 2022 15:07:51)

Set flash size to 231K
Found adapter 0x37401103 at PCI 33:0:0
Offset address 0x0
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
FS0:\> _
```

RR3742:

```
Shell> echo -off
FS0:\> rr3742.nsh
FS0:\> load.efi 3742uefi.rom
Load Utility for Flash EPROM v1.1.1
(built at Jan 26 2021 13:27:20)

Set flash size to 69K
Found adapter 0x37421103 at PCI 33:0:0
Offset address 0x20000
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
FS0:\> _
```

R710:

```
Shell> echo -off
FS0:\> r710.nsh
FS0:\> load.efi 710all.bin /a
Load Utility for Flash EPROM v1.1.5
(built at Sep 1 2022 17:40:06)

Set flash size to 214K
Found adapter 0x7101103 at PCI 33:0:0
Flash size 0x35800, File size 0x35600
Offset address 0x0
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
FS0:\> _
```

R720:

```
Shell> echo -off
FS0:\> r720.nsh
FS0:\> load.efi 720a11.bin /a
Load Utility for Flash EPROM v1.1.5
(built at Sep  1 2022 17:40:06)

Set flash size to 214K
Found adapter 0x7201103 at PCI 33:0:0
Flash size 0x35800, File size 0x35600
Offset address 0x0
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
FS0:\> _
```

3. Reboot to complete the update process.

Troubleshooting

No supporting host adapter is found

When using the ‘**rrxx.nsh/rxx.nsh**’ command, the procedure does not start and the message ‘**No supporting host adapter is found**’ is displayed:

```
FS0:\> rr3740.nsh
FS0:\> load.efi 3740all.blf
Load Utility for Flash EPROM v1.1.5
(built at Jul 18 2022 15:07:51)

Set flash size to 231K
No supporting host adapter is found.
FS0:\> _
```

Solution:

Shutdown the system and move the R7xx, RR37xx, 8xx, 28xx controller to another PCIe slot, and repeat the flash procedure. If the problem still occurs, please refer to the [appendix](#) for collection.

The UEFI Utility Reports No Supported Controller Detected

1. Boot from a UEFI device, the drive loads the UEFI BIOS after the old boot. Enter **ArrayCreate.efi** to create RIAD. The UEFI Utility Reports **No Supported Controller Detected**.

```
Shell> echo -off
FS0:\> rr3740.nsh
FS0:\> load.efi 3740all.blf
Load Utility for Flash EPROM v1.1.5
(built at Jul 18 2022 15:07:51)

Set flash size to 231K
Found adapter 0x37401103 at PCI 33:0:0
Offset address 0x0
EPROM Vendor: WINBOND W25X40BV
Erasing .....Succeeded
Flashing ....

Flashing Success (total retry 0)

Verifying ....

Passed !
FS0:\> ArrayCreate.efi
Highpoint RAID utility for UEFI (version: 20211014)
No supported controller detected.
FS0:\> _
```

Note: If it cannot be loaded successfully, our UEFI rom is not compatible with the current UEFI environment.

2. Then enter **loadpcirom xxx.bin/ loadpcirom xxx.rom** in the UEFI Shell. Based on the output of this command, we can determine whether our UEFI driver is incompatible with your motherboard. If it can be loaded manually, it means that the BIOS settings do not allow third-party ROM files to be loaded.

loadpcirom xxx.bin:

```
No supported controller detected.
FS0:\> loadpcirom 3740a11.bin
Image 'FS0:\3740a11.bin' load result: Success
FS0:\> ArrayCreate.efi
Highpoint RAID utility for UEFI (version: 20211014)
==== Controller information:
  PCI Location: 21:00:00
    Vendor: HighPoint Technologies, Inc.
    Product: RocketRAID 3740 SAS Controller

==== Physical device list(count 4):
1/1 Samsung SSD 850 PRO 256GB-S25UNX0H609774X, 255953MB(MaxFree 0MB), Normal [RA] [WC] [NCQ]
1/2 Samsung SSD 850 PRO 256GB-S25UNX0H610665M, 255953MB(MaxFree 0MB), Normal [RA] [WC] [NCQ]
1/3 Samsung SSD 850 PRO 256GB-S25UNX0H609767K, 255953MB(MaxFree 0MB), Normal [RA] [WC] [NCQ]
1/4 Samsung SSD 860 PRO 256GB-S42WNF0K402232Z, 255953MB(MaxFree 0MB), Normal [RA] [WC] [NCQ]
```

loadpcirom xxx.rom:

```
No supported controller detected.
FS0:\> loadpcirom 840uefi.rom
Image 'FS0:\840uefi.rom' load result: Success
HighPoint RocketRAID 37xx/8xx/28xx Controller UEFI driver version v1.0.3.0
Controller ID:840, Location: 21:0:0
[21:00  ] Start scanning devices...
[21:00 00/00] SATA Device probed.
[21:00 01/00] SATA Device probed.
[21:00 02/00] SATA Device probed.
[21:00 03/00] SATA Device probed.
Adding HPT VDO-0 SCSI Disk Device (RAID0) Capacity 1023GB BlockSize 512 Bytes
FS0:\> _
```

Appendix

Collecting R7xx, RR37xx, 8xx, 28xx Series UEFI information

1. Unzip the R7xx, RR37xx, 8xx, 28xx Series RAID 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 R7xx, RR37xx, 8xx, 28xx Series RAID 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:

```
194 0000000A B N N 16 28 UDP Network Service Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(6D6963AB-906D-4A65-A7CA-BD40E5D6AF2B)
195 0000000A B N N 4 24 IP6 Network Service Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(5BE0B5CC-0830-4EB2-8742-2D4CC3B54F2C)
196 0000000A B N N 14 24 UDP6 Network Service Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(0912C7BC-F098-4367-92BA-E911083C780E)
197 0000000A B N N 2 2 DHCP6 Protocol Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(95E3669D-34BE-4775-A651-7EA41B69D89E)
198 0000000A B N N 2 2 MFTP6 Network Service Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(99F03B99-9808-49D0-A803-321900FFE41E)
199 0000000A D N N 2 0 FAT File System Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(961578FE-B687-44C3-AF35-68C705CD2B1F)
19C 0000000A D N N 2 0 iSCSI Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(B6C0DF93-4872-4597-BAF9-A35AE4D3725F)
19D 0000000A D N N 2 0 iSCSI Driver
19F 0000000A ? N N 0 0 SCSI Bus Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(0167CCD4-D0F7-4F21-A3EF-9E6487CCE8B8)
1A0 0000000A ? N N 0 0 Scsi Disk Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(0A66E322-3740-4CCE-AD62-B0172CECC835)
1AA 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(25ACF158-D061-4E64-9A49-55851E9A26C7)
1AB 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(SD60F367-A505-419A-859E-2A4FF6CA6F
ES)/FvFile(29DF55F8-B675-4F5D-8F2F-B87A3ECFD063)
1AC 00000010 ? N N 0 0 <null string>
1EB 00010900 B N N 1 1 ASPEED Graphics Driver PciRoot(0x2)/Pci(0x1,0x1)/Pci(0x0,0x0
)/Pci(0x0,0x0)/Offset(0x81A0,0x113FF)
202 05030000 B Y Y 2 2 Intel(R) PRO/1000 5.3.00 PCI-E PciRoot(0x3)/Pci(0x3,0x1)/Pci(0x0,0x0
)/MemoryMapped(0x3,0xA0246018,0xA0286DA0)
257 00000011 B N N 1 1 HighPoint 37xx RAID driver v1.0.7 PciRoot(0x1)/Pci(0x3,0x1)/Pci(0x0,0x0
)/Offset(0x12A58,0x39BFF)
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 04 00 00 ==> Mass Storage Controller - Serial ATA Controller
Vendor 1022 Device 7901 Prog Interface 1
00 E0 00 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1480 Prog Interface 0
00 E0 01 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 E0 02 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 E0 03 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 E0 04 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 E0 05 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 E0 07 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 E0 07 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 E0 08 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 E0 08 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 E1 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 148A Prog Interface 0
00 E1 00 02 ==> Encryption/Decryption Controllers - Other Encrypt/Decrypt
Vendor 1022 Device 1498 Prog Interface 0
00 E2 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 1485 Prog Interface 0
00 E2 00 02 ==> Encryption/Decryption Controllers - Other Encrypt/Decrypt
Vendor 1022 Device 1498 Prog Interface 0
FS0:\>
```

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 green below file indicate that the R7xx, RR37xx, 8xx, 28xx Series RAID Controller was recognized, and the driver loaded normally:

RR840:

drivers.txt

```
197 0000000A B N N 2 2 DHCP6 Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(95E3669D-34BE-4775-A651-7EA41B69D89E)
198 0000000A B N N 2 2 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-98D8-49DD-A8D3-3219D0FFE41E)
19B 0000000A D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705CD2B1F)
19C 0000000A D N N 2 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
19D 0000000A D N N 2 0 iSCSI Driver
19F 0000000A ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCC4-D0F7-4F21-A3EF-9E64B7CDCE8B)
1A0 0000000A ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECCA35)
1AA 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
1AB 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
1AC 00000010 ? N N 0 0 <null string>
1EB 00010900 B N N 1 1 ASPEED Graphics Driver PciRoot(0x2)/Pci(0x1,0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Offset(0x81A0,0x113FF)
202 05030000 B Y Y 2 2 Intel(R) PRO/1000 5.3.00 PCI-E PciRoot(0x3)/Pci(0x3,0x1)/Pci(0x0,0x0)/MemoryMapped(0x3,0xA026E018,0xA02AEDA0)
257 00000011 B N N 1 1 HighPoint RocketRAID 37xx/8xx/28xx PciRoot(0x1)/Pci(0x3,0x1)/Pci(0x0,0x0)/Offset(0x98,0x113FF)
```

pci.txt

```
00 20 07 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 08 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 02 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 03 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 21 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 0840 Prog Interface 0
00 22 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 148A Prog Interface 0
00 22 00 02 ==> Encryption/Decryption Controllers - Other Encrypt/Decrypt
Vendor 1022 Device 1498 Prog Interface 0
```

RR2840:**drivers.txt:**

```

196 0000000A B N N 14 24 UDP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(D912C7BC-F098-4367-92BA-E911083C7B0E)
197 0000000A B N N 2 2 DHCP6 Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(95E3669D-34BE-4775-A651-7EA41B69D89E)
198 0000000A B N N 2 2 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-98D8-49DD-A8D3-3219D0FFE41E)
19B 0000000A D N N 1 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705CD2B1F)
19C 0000000A D N N 2 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
19D 0000000A D N N 2 0 iSCSI Driver
19F 0000000A ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCC4-D0F7-4F21-A3EF-9E64B7CDCE8B)
1A0 0000000A ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECCA35)
1AA 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
1AB 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
1AC 00000010 ? N N 0 0 <null string>
1EB 00010900 B N N 1 1 ASPEED Graphics Driver PciRoot(0x2)/Pci(0x1,0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Offset(0x81A0,0x113FF)
202 05030000 B Y Y 2 2 Intel(R) PRO/1000 5.3.00 PCI-E PciRoot(0x3)/Pci(0x3,0x1)/Pci(0x0,0x0)/MemoryMapped(0x3,0xA1B4A018,0xA1B8ADA0)
257 00000011 B N N 1 1 HighPoint RocketRAID 37xx/8xx/28xx PciRoot(0x1)/Pci(0x3,0x1)/Pci(0x0,0x0)/Offset(0x98,0x113FF)

```

pci.txt:

```

00 20 08 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 08 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 02 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 03 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 21 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 2840 Prog Interface 0
00 22 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 148A Prog Interface 0
00 22 00 02 ==> Encryption/Decryption Controllers - Other Encrypt/Decrypt
Vendor 1022 Device 1498 Prog Interface 0

```

RR3720:**drivers.txt:**

```

19B 0000000A D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705CD2B1F)
19C 0000000A D N N 2 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
19D 0000000A D N N 2 0 iSCSI Driver
19F 0000000A ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCC4-D0F7-4F21-A3EF-9E64B7CDCE8B)
1A0 0000000A ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECCA35)
1AA 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
1AB 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
1AC 00000010 ? N N 0 0 <null string>
1EB 00010900 B N N 1 1 ASPEED Graphics Driver PciRoot(0x2)/Pci(0x1,0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Offset(0x81A0,0x113FF)
202 05030000 B Y Y 2 2 Intel(R) PRO/1000 5.3.00 PCI-E PciRoot(0x3)/Pci(0x3,0x1)/Pci(0x0,0x0)/MemoryMapped(0x3,0xA0246018,0xA0286DA0)
257 00000011 B N N 1 1 HighPoint 37xx RAID driver v1.0.7 PciRoot(0x1)/Pci(0x3,0x1)/Pci(0x0,0x0)/Offset(0x12A58,0x39BFF)

```

pci.txt:

```

00 20 07 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 08 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 02 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 03 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 21 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 3720 Prog Interface 0
00 22 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 148A Prog Interface 0

```

RR3740:**drivers.txt:**

```

198 0000000A B N N 2 2 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-98D8-49DD-A8D3-3219D0FFE41E)
19B 0000000A D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705CD2B1F)
19C 0000000A D N N 2 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
19D 0000000A D N N 2 0 iSCSI Driver
19F 0000000A ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCC4-D0F7-4F21-A3EF-9E64B7CDCE8B)
1A0 0000000A ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECCA35)
1AA 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
1AB 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
1AC 00000010 ? N N 0 0 <null string>
1EB 00010900 B N N 1 1 ASPEED Graphics Driver PciRoot(0x2)/Pci(0x1,0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Offset(0x81A0,0x113FF)
202 05030000 B Y Y 2 2 Intel(R) PRO/1000 5.3.00 PCI-E PciRoot(0x3)/Pci(0x3,0x1)/Pci(0x0,0x0)/MemoryMapped(0x3,0xA0246018,0xA0286DA0)
257 00000011 B N N 1 1 HighPoint 37xx RAID driver v1.0.7 PciRoot(0x1)/Pci(0x3,0x1)/Pci(0x0,0x0)/Offset(0x12A58,0x39BFF)

```

pci.txt:

```

00 20 07 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 07 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 08 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 02 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 03 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 21 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 3740 Prog Interface 0
00 22 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 148A Prog Interface 0

```

RR3742:**drivers:**

```

197 0000000A B N N 2 2 DHCP6 Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(95E3669D-34BE-4775-A651-7EA41B69D89E)
198 0000000A B N N 2 2 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-98D8-49DD-A8D3-3219D0FFE41E)
19B 0000000A D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705CD2B1F)
19C 0000000A D N N 2 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
19D 0000000A D N N 2 0 iSCSI Driver
19F 0000000A ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCC4-D0F7-4F21-A3EF-9E64B7CDCE8B)
1A0 0000000A ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECCA35)
1AA 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
1AB 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
1AC 00000010 ? N N 0 0 <null string>
1EB 00010900 B N N 1 1 ASPEED Graphics Driver PciRoot(0x2)/Pci(0x1,0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Offset(0x81A0,0x113FF)
202 05030000 B Y Y 2 2 Intel(R) PRO/1000 5.3.00 PCI-E PciRoot(0x3)/Pci(0x3,0x1)/Pci(0x0,0x0)/MemoryMapped(0x3,0xA026E018,0xA02AEDA0)
257 00000011 B N N 1 1 HighPoint RocketRAID 37xx/8xx/28xx PciRoot(0x1)/Pci(0x3,0x1)/Pci(0x0,0x0)/Offset(0x98,0x113FF)

```

pci.txt:

```

00 20 07 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 07 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 08 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 02 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 03 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 21 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 3742 Prog Interface 0
00 22 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 148A Prog Interface 0

```


R710:**drivers:**

```

198 0000000A B N N 2 2 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-98D8-49DD-A8D3-3219D0FFE41E)
19B 0000000A D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705CD2B1F)
19C 0000000A D N N 2 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
19D 0000000A D N N 2 0 iSCSI Driver
19F 0000000A ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCC4-D0F7-4F21-A3EF-9E64B7CDCE8B)
1A0 0000000A ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECCA35)
1AA 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
1AB 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
1AC 00000010 ? N N 0 0 <null string>
1EB 00010900 B N N 1 1 ASPEED Graphics Driver PciRoot(0x2)/Pci(0x1,0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Offset(0x81A0,0x113FF)
202 05030000 B Y Y 2 2 Intel(R) PRO/1000 5.3.00 PCI-E PciRoot(0x3)/Pci(0x3,0x1)/Pci(0x0,0x0)/MemoryMapped(0x3,0xA024A018,0xA028ADA0)
257 00000011 B N N 1 1 HighPoint 37xx RAID driver v1.0.7 PciRoot(0x1)/Pci(0x3,0x1)/Pci(0x0,0x0)/Offset(0x11A58,0x3555FF)

```

pci.txt:

```

00 20 07 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 08 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 02 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 03 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 21 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 0710 Prog Interface 0
00 22 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 148A Prog Interface 0

```

R720:**drivers:**

```

195 0000000A B N N 4 24 IP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(5BEDB5CC-D830-4EB2-8742-2D4CC9B542FC)
196 0000000A B N N 14 24 UDP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(D912C7BC-F098-4367-92BA-E911083C7B0E)
197 0000000A B N N 2 2 DHCP6 Protocol Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(95E3669D-34BE-4775-A651-7EA41B69D89E)
198 0000000A B N N 2 2 MTFTP6 Network Service Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(99F03B99-98D8-49DD-A8D3-3219D0FFE41E)
19B 0000000A D N N 2 0 FAT File System Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(961578FE-B6B7-44C3-AF35-6BC705CD2B1F)
19C 0000000A D N N 2 0 iSCSI Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(86CDDF93-4872-4597-8AF9-A35AE4D3725F)
19D 0000000A D N N 2 0 iSCSI Driver
19F 0000000A ? N N 0 0 SCSI Bus Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0167CCC4-D0F7-4F21-A3EF-9E64B7CDCE8B)
1A0 0000000A ? N N 0 0 Scsi Disk Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(0A66E322-3740-4CCE-AD62-BD172CECCA35)
1AA 00000010 ? N N 0 0 AMI CSM Block I/O Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(25ACF158-DD61-4E64-9A49-55851E9A26C7)
1AB 00000024 ? N N 0 0 BIOS[INT10] Video Driver Fv(5C60F367-A505-419A-859E-2A4FF6CA6FE5)/FvFile(29CF55F8-B675-4F5D-8F2F-B87A3ECFD063)
1AC 00000010 ? N N 0 0 <null string>
1EB 00010900 B N N 1 1 ASPEED Graphics Driver PciRoot(0x2)/Pci(0x1,0x1)/Pci(0x0,0x0)/Pci(0x0,0x0)/Offset(0x81A0,0x113FF)
202 05030000 B Y Y 2 2 Intel(R) PRO/1000 5.3.00 PCI-E PciRoot(0x3)/Pci(0x3,0x1)/Pci(0x0,0x0)/MemoryMapped(0x3,0xA024A018,0xA028ADA0)
257 00000011 B N N 1 1 HighPoint 37xx RAID driver v1.0.7 PciRoot(0x1)/Pci(0x3,0x1)/Pci(0x0,0x0)/Offset(0x11A58,0x3555FF)

```

pci.txt:

```

00 20 07 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 07 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 00 ==> Bridge Device - Host/PCI bridge
Vendor 1022 Device 1482 Prog Interface 0
00 20 08 01 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 02 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 20 08 03 ==> Bridge Device - PCI/PCI bridge
Vendor 1022 Device 1484 Prog Interface 0
00 21 00 00 ==> Mass Storage Controller - RAID controller
Vendor 1103 Device 0720 Prog Interface 0
00 22 00 00 ==> Non-Essential Instrumentation - Non-Essential Instrumentation Function
Vendor 1022 Device 148A Prog Interface 0

```

If you fail to update R7xx, RR37xx, 8xx, 28xx Series RAID Controller BIOS_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.