

Installing the New R750 FreeNAS Driver

With the release of Highpoint's new R750 driver for FreeNAS, it is highly recommended that everybody updates to this version (v1.2.6). The following are the steps to take to download and install the needed driver. This patch addresses a bug that caused high capacity (8TB and greater) to timeout if not placed in exact sequential order.

There are two suggested methods to accomplish this, all dependent on personal preference.

1. Download the package on any computer and put it on a flash drive. The flash drive will then be placed into the Storinator to access the package from there.
2. Download it over the network, this is done via command line. You can do this via ssh, the FreeNAS WebGUI or IPMI remote access.

Method 1 – Using the Network Download

Three options to get to the shell

- Enter the shell by pressing '9' in the FreeNAS console
- ssh into the server using the IP
- Use the FreeNAS WebGUI shell option

Step 1– Change into the '/mnt' directory and download the package

To do this run the follow command: 'cd /mnt'

Next, run the following command to download the package:

```
'wget http://images.45drives.com/HPTNR_FreeNAS_9.10_v1.2.6_xx_xx_xx.tgz'
```

Step 2 – Unzip the package to access the files inside

To do this run the following command:

```
'tar -xvzf HPTNR_FreeNAS_9.10_v1.2.6_xx_xx_xx.tgz'
```

Step 3 – Run the installer

To do this run the following command:

```
'./postinstall'
```

Step 4 – Exit from shell and shutdown the machine

To do so run the following command: 'exit'

Once back to the FreeNAS console setup screen, enter 14 to shut down the machine, followed by 'y' to confirm your shutdown.

NOTE: Rebooting will not fully complete the install, machine **MUST** be fully shutdown for install to finish **correctly.**

Step 5 – Turn your machine back on

Method 2 – Using Flash Drive

In order to use a flash drive, you must make sure it is formatted with a FAT partition to be accessible on your Storinator.

Step 1 – Download the package

Head over to <http://www.45drives.com/downloads> and click on *HPTNR_FreeNAS_9.10_v1.2.6_xx_xx_xx.tgz*.

Once the download has finished, drag the package onto your flash drive.

Step 2 – Plug the flash drive into your Storinator

Make sure you have a monitor and keyboard attached to your Storinator or access to the FreeNAS console via IPMI

Step 3 – Enter the command line (shell)

At the FreeNAS console, option 9 will bring you to the command line.

Step 4 – Create a directory to mount your flash drive

To create a directory use the following command: `'mkdir /mnt/tmp'`

Step 5 – Determine which device is your flash drive

(Knowing the brand of your flash drive will be a big help)

The command to run is as follows : `'camcontrol devlist'`

(For example, in our Storinator we're using Western Digital Drives, and the flash drive was a Kingston. We can see from the list below that the flash drive is device da20

```

[root@freenas] ~# camcontrol devlist
<SanDisk SD8SBAT128G1122 22333000> at scbus7 target 0 lun 0 (pass0,ada0)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 1 lun 0 (da0,pass1)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 2 lun 0 (da1,pass2)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 3 lun 0 (pass3,da2)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 4 lun 0 (da15,pass16)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 5 lun 0 (da3,pass4)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 6 lun 0 (da4,pass5)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 7 lun 0 (pass6,da5)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 9 lun 0 (pass7,da6)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 10 lun 0 (pass8,da7)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 11 lun 0 (da8,pass9)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 13 lun 0 (da18,pass19)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 14 lun 0 (pass11,da10)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 15 lun 0 (pass12,da11)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 17 lun 0 (da12,pass13)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 18 lun 0 (pass14,da13)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 19 lun 0 (da14,pass15)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 21 lun 0 (da17,pass18)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 23 lun 0 (da19,pass20)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 25 lun 0 (da16,pass17)
<ATA WDC WD101KRYZ-01 01.0> at scbus11 target 27 lun 0 (da9,pass10)
<Kingston DataTraveler 3.0 PMAP> at scbus12 target 0 lun 0 (da20,pass21)

```

Step 6 – Mount the flash drive to the created directory

Note: Add s1 to the end of your device name like shown below

To do this use the following command: 'mount -t msdosfs /dev/da20s1 /mnt/temp'

Step 7 - Unzip the package to access the files inside

To do this run the following command:

'tar -xvzf HPTNR_FreeNAS_9.10_v1.2.6_xx_xx_xx.tgz'

Step 8 – Copy the .ko file into the /mnt directory

To do so , run the following command:

'cp hptnr-10.3-amd64.ko /mnt'

Step 9 – Run the installer

To do this run the following command:

'./postinstall'

Step 10 – Exit from shell and shutdown the machine

To do so run the following command: 'exit'

Once back to the FreeNAS console setup screen, enter 14 to shut down the machine, followed by 'y' to confirm your shutdown.

NOTE: Rebooting will not fully complete the install, machine **MUST** be fully shutdown for install to finish correctly.

Step 11 – Turn your machine back on

