# HighPoint Rocket RAID Controller RR3700/R700 CentOS Installation Guide

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#### 1. Overview

The purpose of this document is to provide clear instructions on how to install and use RR3700/R700 RAID Controller on CentOS 7.6 system.

## 2. Installing CentOS 7.6 on RR3700/R700 RAID Controller

If you would like to install CentOS 7.6 onto drives attached to RR3700/R700 RAID Controllers, please perform the following operations:

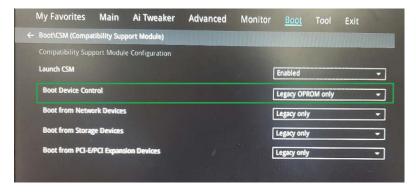
### Step 1 Prepare Your Hardware for Installation

After you attach your HDDs to R710 controllers, you can use RR3700/R700 BIOS Utility to configure your HDDs as RAID arrays, or just use them as single disks.

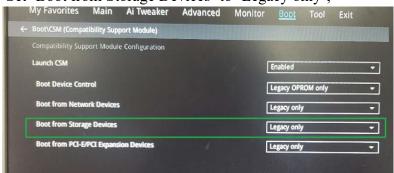
Before installation, you must remove all the disk drives, which are not physically attached to RR3700/R700 RAID controller from your system.

## **Step 2 Check System Boot Settings**

- 1. Set Boot setting with ASUS PRIME Z390-A motherboard as an example
  - a. Set 'Boot Device Control' to 'Legacy OPROM only' or 'UEFI and Legacy OPROM';



b. Set 'Boot from Storage Devices' to 'Legacy only';



## Step 3 Create Arrays with BIOS Utility (e.g. RAID1)

#### 1. Run RocketRAID BIOS setting Utility

a. Press 'Ctrl + H' key combination to access the RocketRAID RR3700/R700 BIOS Setting Utility;

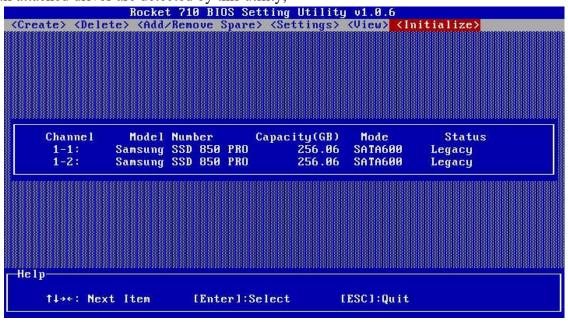
```
Rocket 710 BIOS Setting Utility v1.0.6

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Scan Devices. Please wait ...

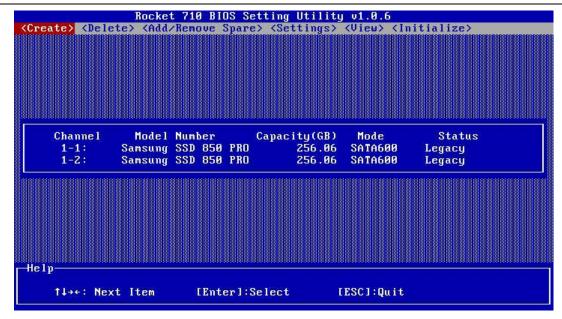
Help—
Press (Ctrl><H> to run BIOS Setting Utility
```

b. The BIOS Utility will display information about hard drives attached to the adapter. Make sure all attached drives are detected by this utility;



#### 2. Initializing Disks:

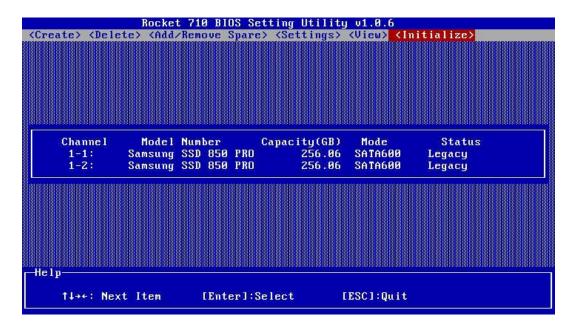
- a. Before creating a RAID array, the disks must be initialized. Select the **Initialize** command from the toolbar, and press **Enter** key;
- b. Highlight the target disks using the arrow keys, and then press the **Enter** key;



**Warning:** Initialization will destroy all pre-existing data on the selected hard disks.

Only initialize disks that do not contain critical data;

c. Once initialized, these disks can be used to create RAID arrays. These disks will be displayed as 'Initialized' (under Status).



#### 3. Create Arrays

- a. Select Create from the toolbar and press Enter key;
- b. Use the arrow keys to select the RAID level and press **Enter** key;

c. On the Create menu, use the arrow keys to highlight the Select Devices item and press Enter key;

```
Rocket 718 BIOS Setting Utility v1.0.6

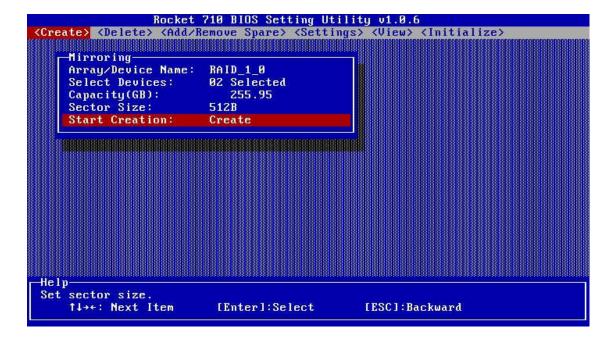
(Create) (Delete) (Add/Remove Spare) (Settings) (View) (Initialize)

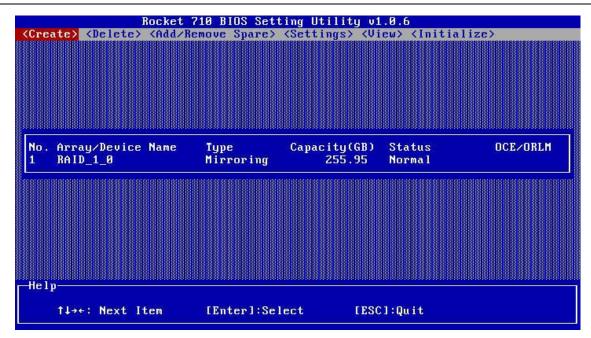
Hirroring
Array/Device Name: RAID_1_0
Select Devices: 0 Selected
Capacity(GB): 0
Sector Size: 512B
Start Creation: Create

Help
Select the disks to create an array.

† +++: Mext Item | Enter]:Select | [ESC]:Backward
```

- d. Highlight the target disks that you want to use, and press **Enter** key to select them;
- e. To complete the creation procedure, use the arrow key to highlight the **Start Creation** item and press **Enter** key. Press the **Y** (**yes**) key to create the array, or **N** (**no**) key to cancel the creation process;





f. Press **ESC** to exit BIOS Utility.



#### **Step 4 Install CentOS 7.6**

#### 1. Install RR3700/R700 Driver

a. Unzip RR3700/R700 driver package to root dir (/) of a USB flash drive, and insert the USB flash drive to the motherboard;

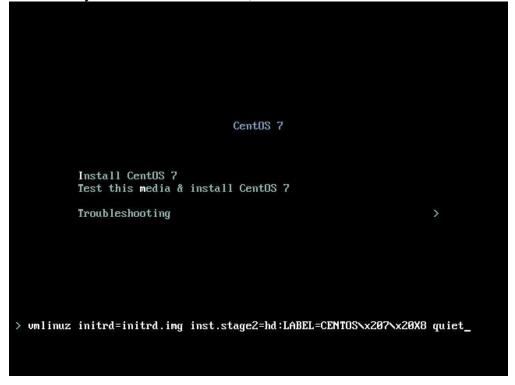
#### Note

Make sure your USB flash drive is recognized by CentOS. Recommended ext4 format

- b. Booting from installation DVD disc;
- c. When the Installation screen appears move cursor to 'Install CentOS Linux 7';



d. Press **Tab** key to edit the selected item;



e. At the end of command line, append 'inst.dd' and press Enter key to start install driver;

```
CentOS 7

Install CentOS 7
Test this media & install CentOS 7
Troubleshooting >

> wmlinuz initrd=initrd.img inst.stage2=hd:LABEL=CENTOS\x207\x20X8 quiet inst.dd_
```

f. Command '1' and press Enter key to select driver disk device;

g. Command '1' and press Enter key to select driver disk IOS file;

```
(Page 1 of 1) Choose driver disk ISO file
1) /media/DD-1/kmod-rr3740a-v1.23.9-22_11_24_e17.6.x86_64.iso
# to select, or 'c'-continue: 1
```

h. Command '1' and press **Enter** key to select driver to install;

```
(Page 1 of 1) Select drivers to install
1) [ ] /media/DD-2/rpms/x86_64/kmod-rr3740a-v1.23.9-22_11_24_el7.6.x86_64.rpm
# to toggle selection, or 'c'-continue: 1
```

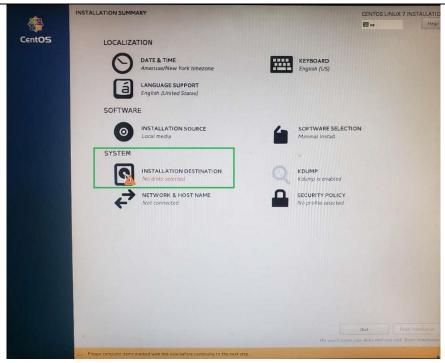
i. Command 'c' and press Enter key to start driver to install;

```
(Page 1 of 1) Select drivers to install
1) [xl /media/DD-Z/rpms/x86_64/kmod-rr3740a-v1.23.9-22_11_24_e17.6.x86_64.rpm
# to toggle selection, or 'c'-continue: c_
```

#### 2. Install CentOS

a. After driver installation is complete, command 'c' and press **Enter** key to start CentOS install;

b. Unplug the USB flash drive and click **INSTALLATTION DESTINATION**;



c. Click **refresh** in the bottom right corner and select a disk with **HPT** characters for installation.

