

Firmware Update Guide

Crucial RealSSD C300 Firmware Revision 0006

Boot from CD update guide (Update from Rev 0002 to Rev 0006)

Introduction

This document describes the process of updating the firmware on the Crucial RealSSD C300 using a bootable CD and an ISO image. The ISO image contains the 0006 firmware update and DOS boot code.

This process is to be used for updating the Firmware **from Revision 0002 to Revision 0006**. It will not work for updating between any other versions. **If your drive has Revision 0001 firmware, then you **MUST** first perform the intermediate step of updating to Revision 0002.** Instructions for updating from Revision 0001 to Revision 0002 are available at <http://www.crucial.com/support/firmware.aspx>

WARNING: As with all firmware updates, it is strongly recommended that you backup or make copies of all important files before performing this update. This firmware update process is done entirely at your own risk. If performed correctly, there will be no loss of system or user data on the drive. However, if the firmware process is interrupted for any reason, your solid-state drive may not function properly.

General Instructions

Download the Firmware Update

1. Before beginning the firmware download process close all other programs except for your internet browser.
2. Find the **boot from CD** Firmware Update associated with the part number of your Crucial Solid State Drive.
3. Click Download and the browser will prompt you to select **Open, Save or Cancel**. Select **Save** to download the .zip file containing the ISO Image to your system.
4. Using CD Burning software of your choice, burn the ISO Image to CD media.

Complete the following steps before starting the firmware update process:

1. Backup the Solid-State Drive

It is highly recommended that full system backup be completed before starting this firmware upgrade procedure. If the upgrade is interrupted (by a power loss or hardware failure of some sort), it is possible that the solid-state drive may not function properly.

2. Plug Drive into Motherboard port 0-3

If your SSD is in a desktop computer system, ensure that your SSD is plugged into one of the first four ports on the motherboard, typically labeled 0 through 3. Some systems do not support "hot-plugging" your SSD. If necessary, shut down power to your system before plugging your SSD into a new port. **Note: The upgrade process will not work with some drop-in HBAs (Host Bus Adapters) or 6.0 Gb/s ports. If your drive is not identified properly (see Step 3 under "Run the Firmware Update" section below.**

Most notebook computers will not require a physical change of ports.



3. Use AC Power

Ensure your mobile PC or desktop PC is plugged in to AC power during the update process. It is not recommended to use only battery power during the upgrade. Do not remove power at any time during the firmware update process as this could produce incomplete results and may render your solid-state drive unusable.

4. Edit BIOS Settings

Per the steps below, you may need to edit your computer's BIOS settings. Please see your computer's owner's manual for details on editing these settings.

a. Disable/Remove Drive Passwords

Enter the BIOS (typically by hitting the "Delete", "F2" or "F12" key during start-up screen), and disable any passwords that you may have set on the SSD. Password protections will block firmware updates.

b. Check the Boot Order

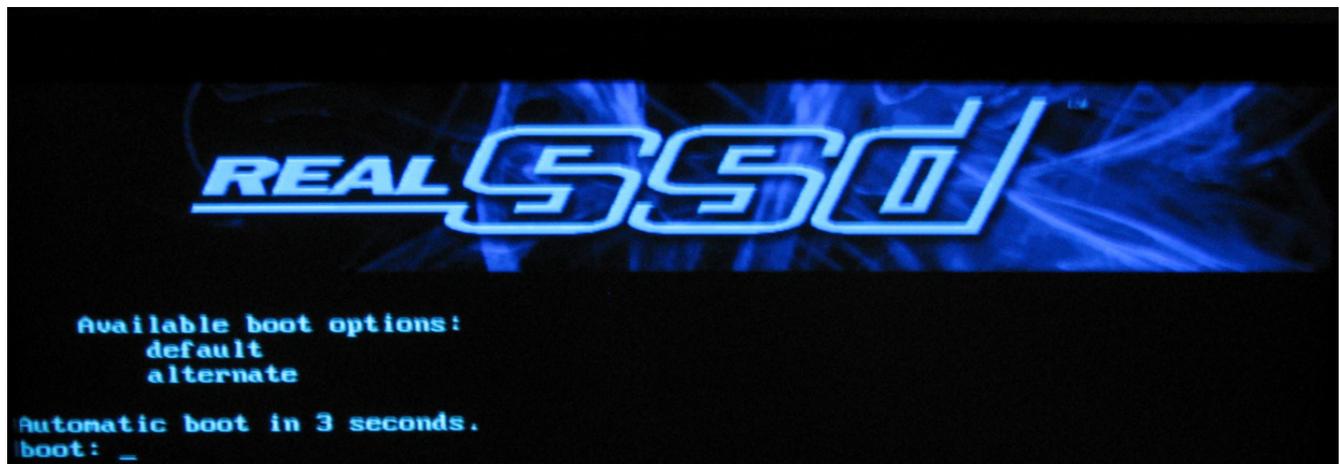
If your system does not boot from CD/DVD drive, you will need to edit your BIOS settings. While in the BIOS editor, check the drive boot order. As a default, most systems will boot from the CD-ROM/DVD drive before the system drive. Depending on the BIOS vendor, find an option named "Boot Device Priority", "Boot Load Order", or possibly "Advanced BIOS Features". Ensure that the system boots to the bootable media drive before the drive that contains the OS.

c. Change SATA mode to IDE mode

From BIOS Setup, change the SATA mode to IDE or Legacy mode or "compatibility mode." The firmware update will not work in AHCI mode. Look for a parameter named "SATA Configuration", or possibly "Integrated Peripherals".

Run the Firmware Update

1. Insert the bootable CD media with the ISO Image into your system.
2. Reboot the system from the bootable media. This will automatically start the Firmware Update. The following screen will appear:



3. After the update tool has fully loaded, you will see the following:

```
(c) 2009,2010 Micron Technology, Inc. All Right
This copyright notice may not be removed, alter

*****
** READ ANY SUPPORTING DOCUMENTS ACCOMPANYING T
*****

Finding drives...
Searching for eligible SSDs...
The following drive is eligible for a firmware

C300-C1FDDAA256MAG
00000000101602FB53AA
0002

Update firmware on this drive?
Enter 'yes' or 'no', case is sensitive...
->
```

4. You may see messages saying "Waiting for DRQ..." prior to being asked to Update the Firmware. These are normal. Enter "yes" in lower case letters when asked to update the firmware. The following screen will appear:

```
Update firmware on this drive?
Enter 'yes' or 'no', case is sensitive...
-> yes
Updating firmware...
.....
.....
.....
```

5. The "." characters will print periodically as the upgrade progresses. The length of time for the upgrade to take is dependent on how much user data is present. For a new or nearly empty drive, the process takes only seconds. For a drive that is nearly full, it is normal for the process to take 3 to 4 minutes, as the upgrade software takes steps to protect user data.
6. Upon completion, the following message will display:

```
Current Firmware is: 0006
Finished.
A:\>
```

7. **IMPORTANT!!!** The revision of the firmware will be listed. If the revision is NOT listed as 0006, then repeat the process from Step 1 of the "Run the Firmware Update" section above.



8. If you are not sure what revision firmware you have or want to confirm you can enter

```
dosmcli --verbose -d
```

at the A:\> prompt. The last line shown is the Firmware Revision. If 0006 is not shown, repeat the process from Step 1 of the **“Run the Firmware Update”** section above. PLEASE NOTE: This command will list all ATA drives on your system, not just the Crucial SSD.

9. Shut down your system by pressing and holding the power button. If necessary, move your SSD’s cable back to its original port.
10. Turn power back ON. Remember to re-enter the BIOS Setup. You may restore any BIOS settings you made at the start of this process back to original settings.
11. Process is complete.

revision: 11/17/2010