

Firmware Update Guide

Micron RealSSD C300 Firmware Revision 0007

Boot from CD update guide (Update from Rev 0006 to Rev 0007)

Introduction

This document describes the process of updating the firmware on the Micron RealSSD C300 using a bootable CD and an ISO image. The ISO image contains the 0007 firmware update and DOS boot code.

This process is to be used for updating the Firmware **from Revision 0006 to Revision 0007**. It will not work for updating between any other versions. If your drive has Revision 0001 or 0002 firmware, then you must first take the intermediate steps to update to Revision 0006. The following instruction sets are available at the www.micron.com website:

- Updating from Revision 0001 to Revision 0002
- Updating from Revision 0002 to Revision 0006

These steps must be completed individually, in sequence, if it is desired to update from version 0001 or 0002 to 0007.

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. If this update is done on a notebook computer, it is strongly recommended that power be supplied by the AC power adapter.

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 **C300 Rev. 0007 Firmware Update Utility** associated with your Micron SSD at the www.micron.com website.
 - Under the Documentation tab from the Products ->RealSSD->Client SSD page. Select "Software" from the dropdown menu.
 - The direct URL is http://www.micron.com/products/solid_state_storage/client_ssd.html

3. Click the **hypertext** link for the product desired, and the browser will prompt you to select **Open**, **Save** or **Cancel**. Select **Save** to download the ISO Image to your system.
4. Using the CD Burning software of your choice, burn this 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. 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.

3. 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

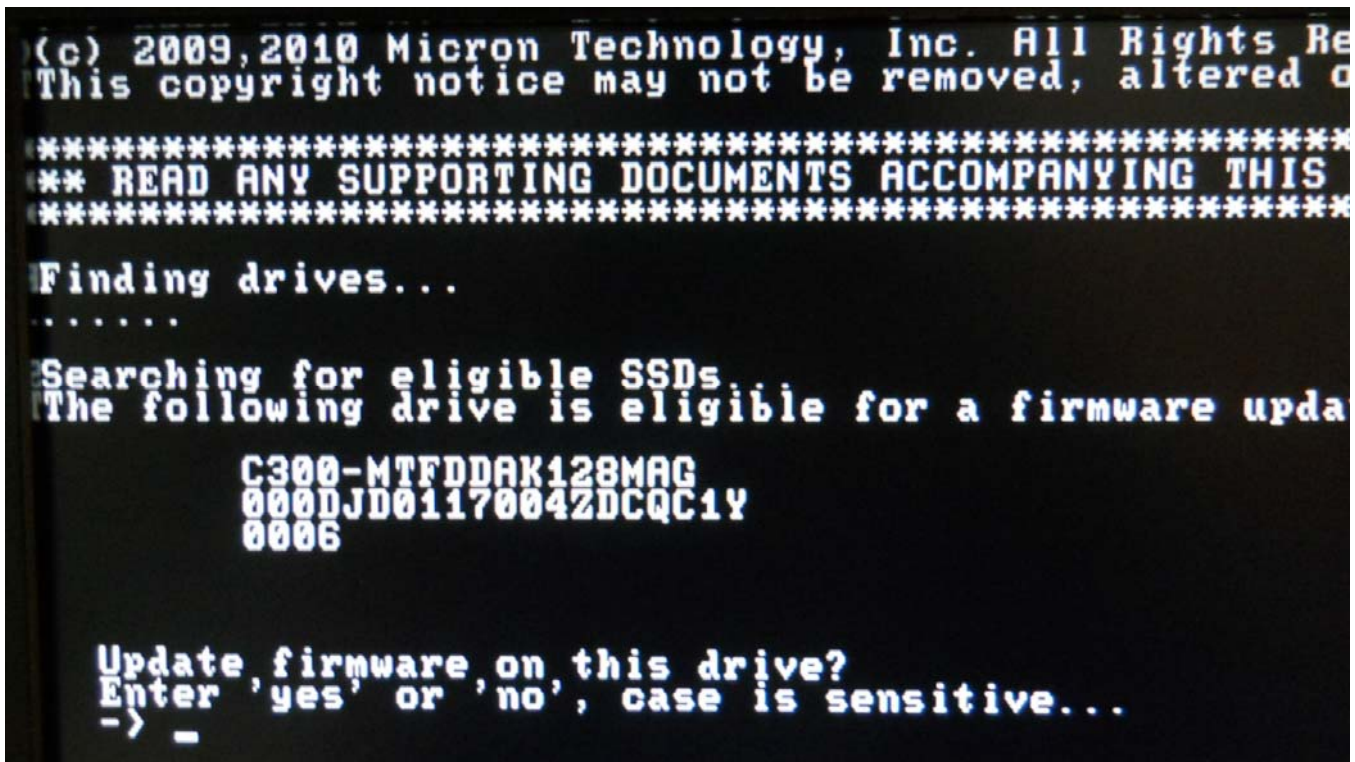
If your system does not boot from CD/DVD drive, you will need to edit your BIOS settings. While in the BIOS editor, check the drive boot order. As a default, most systems will boot from the CD-ROM/DVD drive before the system drive. Depending on the BIOS vendor, find an option named "Boot Device Priority", "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.

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:



If your C300 drive is not listed in the screen display as above, please see the “Troubleshooting Tips” section below.

4. You may see “Waiting for DRQ” prior to being asked to update the firmware. These messages 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...
Preparation stage...
Final stage...
```

5. On most systems, this process will take between 30 to 60 seconds. Some systems may require a longer time to complete.
6. Upon completion, the following message will display:

```
Current Firmware is: 0007

Finished.
A:\>_
```

7. **IMPORTANT!!!** The revision of the firmware will be listed. If the revision is **NOT** listed as 0007, 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 0007 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 Micron SSD.

9. Remove the bootable CD, and shut down your system by pressing and holding the power button.
10. Turn power back ON. You may change any BIOS settings you made at the start of this process back to original settings.
11. Process is complete.

Troubleshooting Tips

- Every effort has been made to test the compatibility of this software with various system and chipset configurations, however, it is not possible to test every available system, and older systems may experience compatibility problems.
- If your RealSSD C300 drive is not recognized in Step 3 of the “Run the Firmware Update” section above, it may be necessary to run this update in IDE mode instead of AHCI mode. To do so, perform the following steps:
 - In a desktop system, ensure that your drive is plugged into one of first 4 ports on the SATA bus. These are normally labeled 0 through 3. Some motherboards do not support hot-plugging of SATA devices, so it is recommended that power be shut off to the system before changing ports.
 - 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”.
 - Save your settings and exit from the BIOS.
 - Proceed with the instructions from Step 1 of the “Run the Firmware Update” section above.



Revision History

Rev. A.....31 March 2011

- Initial release