

BIOS Update Guide

Keysight M9037A BIOS Update Utility

Description

This Keysight M9037A BIOS upgrade utility allows you to restore or update the BIOS in your M9037A PXIe Embedded Controller. As an example, this Update Guide will use BIOS version AG08.

There are three primary steps to updating the BIOS:

Step 1. Obtain the M9037A BIOS files from the Keysight M9037A Embedded Controller website.

Step 2. Obtain the AMI BIOS Update Tool from American Megatrends.

Step 3. Use the AMI BIOS Update Tool to actually update the BIOS in your M9037A controller.

The remainder of this guide provides instructions on obtaining the necessary files and using them to update the M9037A controller BIOS.

NOTE

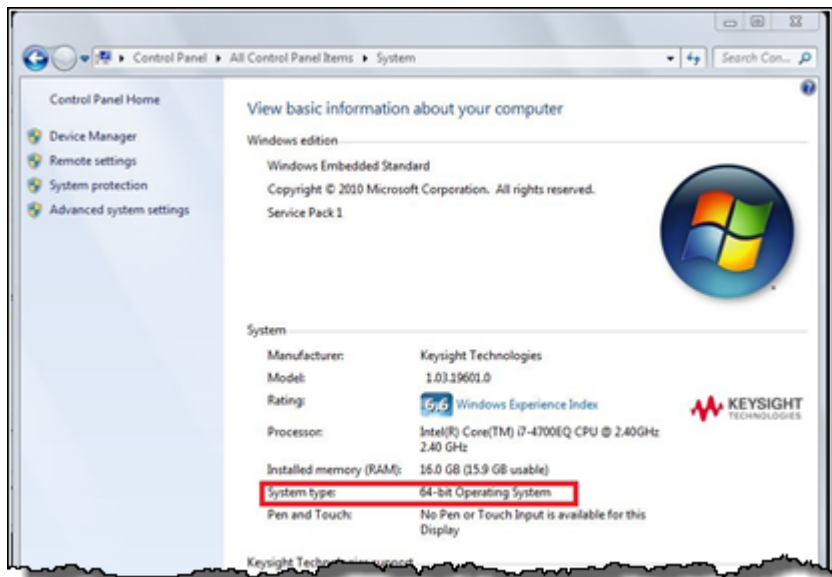
In order to upgrade the BIOS, you must be logged in the Keysight M9037A Embedded Controller as a user with Administrator privileges. If you are not, you must logout and then login in again as a user to an account with Administrator privileges. Set the User Account Control to the default position.

Step 1. Obtain M9037A BIOS Files

- 1) Open your browser to: [www/keysight.com/find/M9037A](http://www.keysight.com/find/M9037A).
- 2) Click on **Visit Technical Support**.
- 3) Click the tab named **Drivers, Firmware & Software**.
- 4) Select **M9037A BIOS Downloads**.
- 5) Click the **Download** button. Select the desired BIOS.
- 6) Click the **Save As...** button. Save the .zip file to the PC Desktop.
- 7) From the PC Desktop, right click on the BIOS .zip file. Choose **Extract All...** then click **Extract**. A folder is created on the PC desktop with the same name as the .zip file. A File Explorer window opens displaying the contents of the folder. The *.rom and *.bat files will be used in Step 3 later.

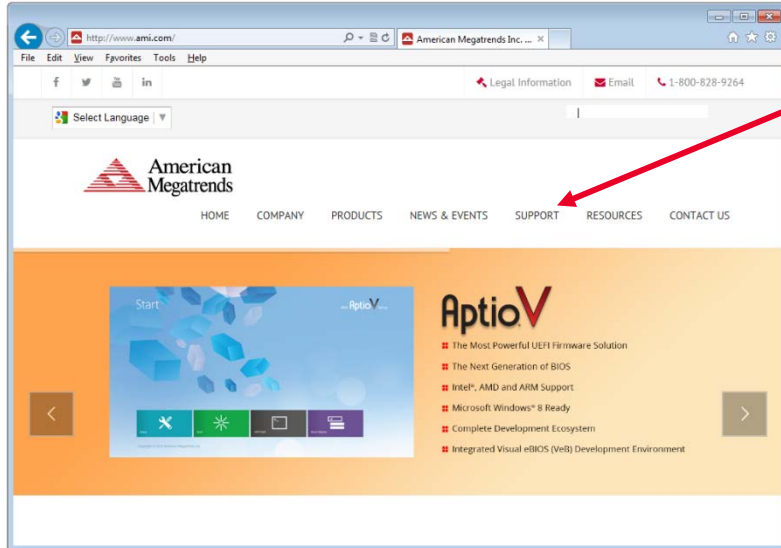
The following six files should be in the AG08 folder:

- 9037A08.rom
 - Update_AG08_Winx64.bat
 - Update_AG08_Winx86.bat
 - History_rev.TXT
 - README_BIOS.TXT
 - M9037A BIOS Update Procedure.pdf (this document)
- 8) Determine whether you have a 32-bit or a 64-bit Operating System. From the Start button:
Start→**Control Panel**→**System**

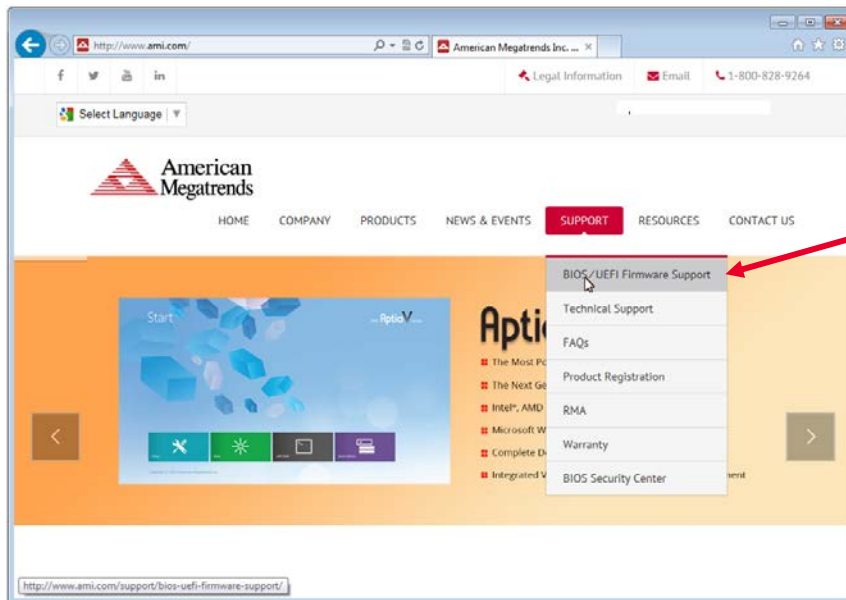


Step 2. Obtain AMI Update BIOS Tool

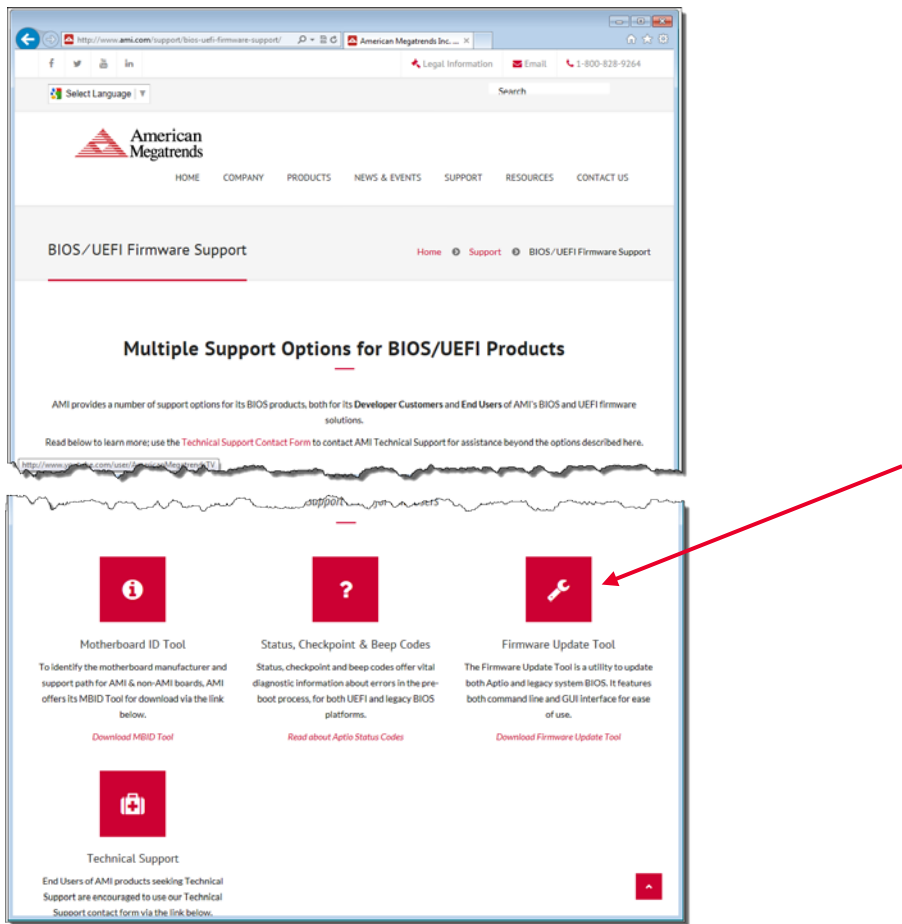
- 1) Open browser to: www.ami.com.
- 2) Mouse-over - the word **“Support”** in the top row of the web page. Note: the screen may look different than the one shown below.



- 3) A pull-down menu appears. Select **“BIOS/UEFI Firmware Support”**.



4) The following screen displays. Scroll down to near the bottom of the web page.



5) Left click on "Firmware Update Tool".

6) This license agreement opens next. You should read the license agreement prior to agreeing to it. Scroll down to near the bottom of the License Agreement web page.

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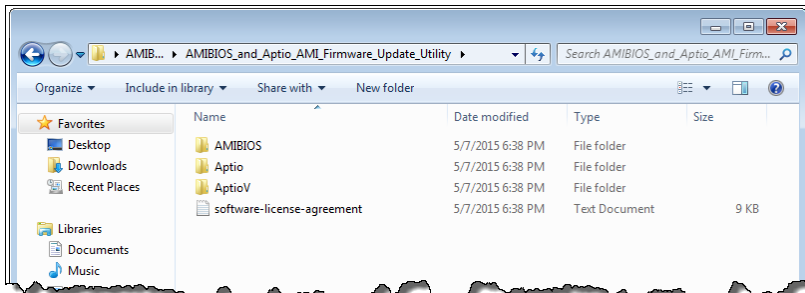
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FILE DOWNLOAD >>>

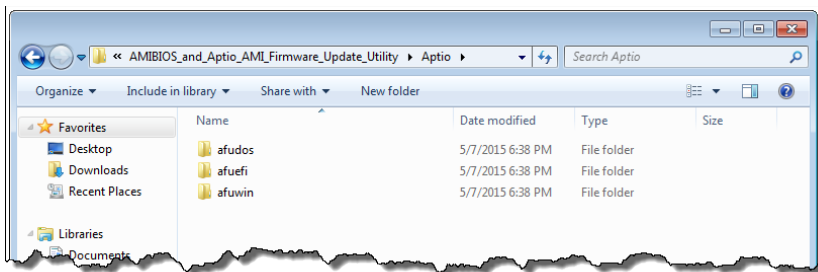
>> Click here to agree to the license agreement and begin your download <<

- 7) Click the black box **"Click here to agree to license agreement and begin your download"**.
- 8) When the following dialog appears, click **"Save As"**.
- 9) Save the .zip file to the M9037A PC DeskTop.
- 10) The .zip file will download. Look for the **AMIBIOS_and_Aptio_AMI_Firmware_Update_UTILITY.zip** icon on your PD's desktop.
- 11) Right-click on icon and choose **"Extract All"**.
- 12) Use the default destination folder. Left-click the **"Extract"** button.

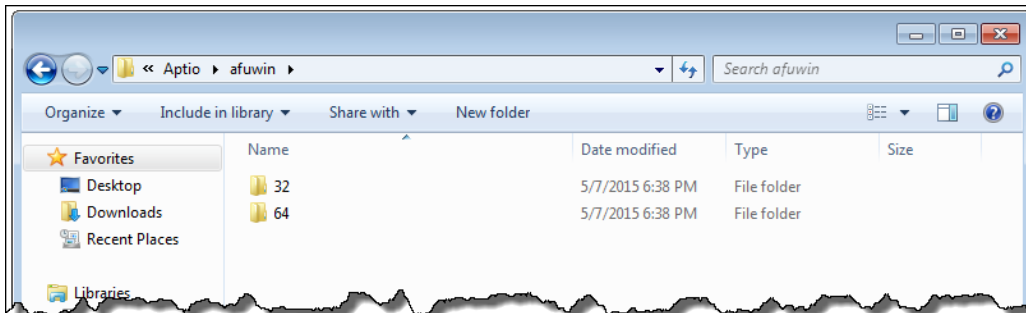
13) When it is finished extracting the files, Windows File Explorer opens showing the folder contents.



14) Open the **Aptio** folder.

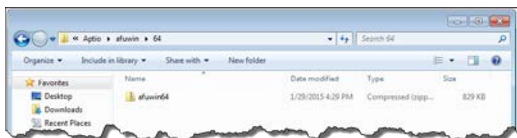


15) Open folder **afuwin**.

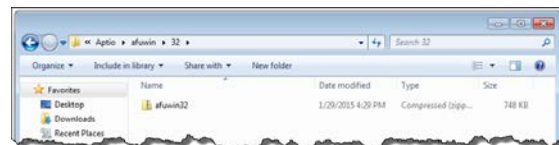


16) Open the appropriate correct folder that matches your M9037A Operating System – either **32** for 32-bit OS or **64** for 64-bit OS:

64 bit OS



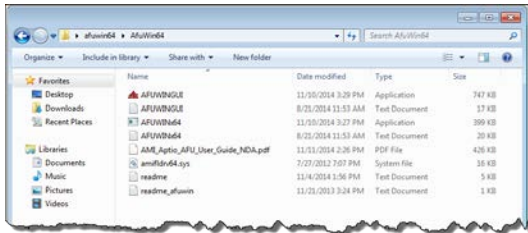
32 bit OS



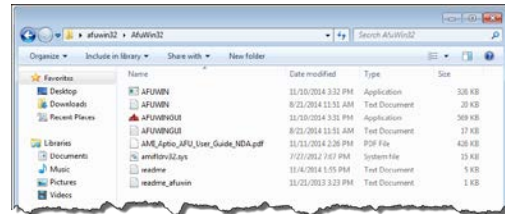
17) Copy the zip file (**afuwin64.zip** or **afuwin32.zip**) to the M9037A desktop:

- 18) On your desktop, right click on the .zip file and choose **Extract All...**
- 19) Use the default destination folder. Left-click the **Extract** button.
- 20) If your M9037A has a 64 bit OS then navigate to folder **AfuWin64** else navigate to folder **AfuWin32**.
- 21) Open the folder.

64 bit OS

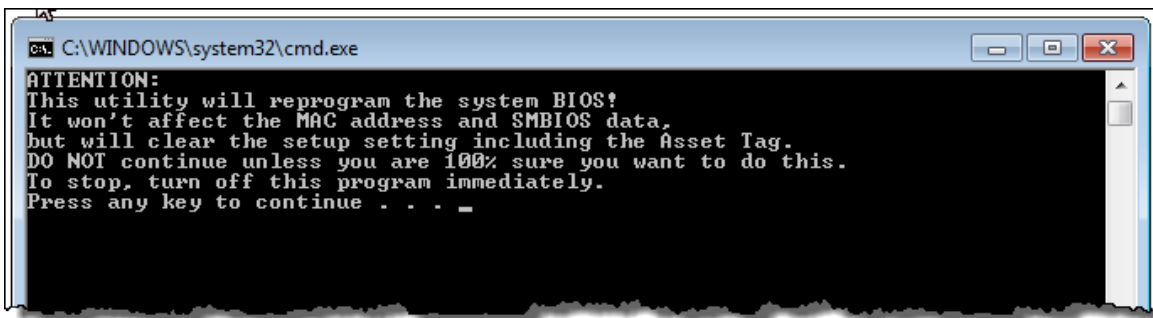


32 bit OS



Step 3. Update the M9037A BIOS

- 1) If your M9037A has a 64 bit OS then:
 - a) copy the *.rom and *.bat files (obtained in Step 1 earlier) files from M9037A_AG08 to the AfuWin64 folder.
 - b) double left-click on **Update_AG08_Winx64.bat** file.
- 2) If your M9037A has a 32 bit OS then:
 - a) copy copy the *.rom and *.bat files (obtained in Step 1 earlier) files from M9037A_AG08 to the AfuWin32 folder.
 - b) double left-click on **Update_AG08_Winx86.bat** file.
- 3) A Command window opens as shown below:



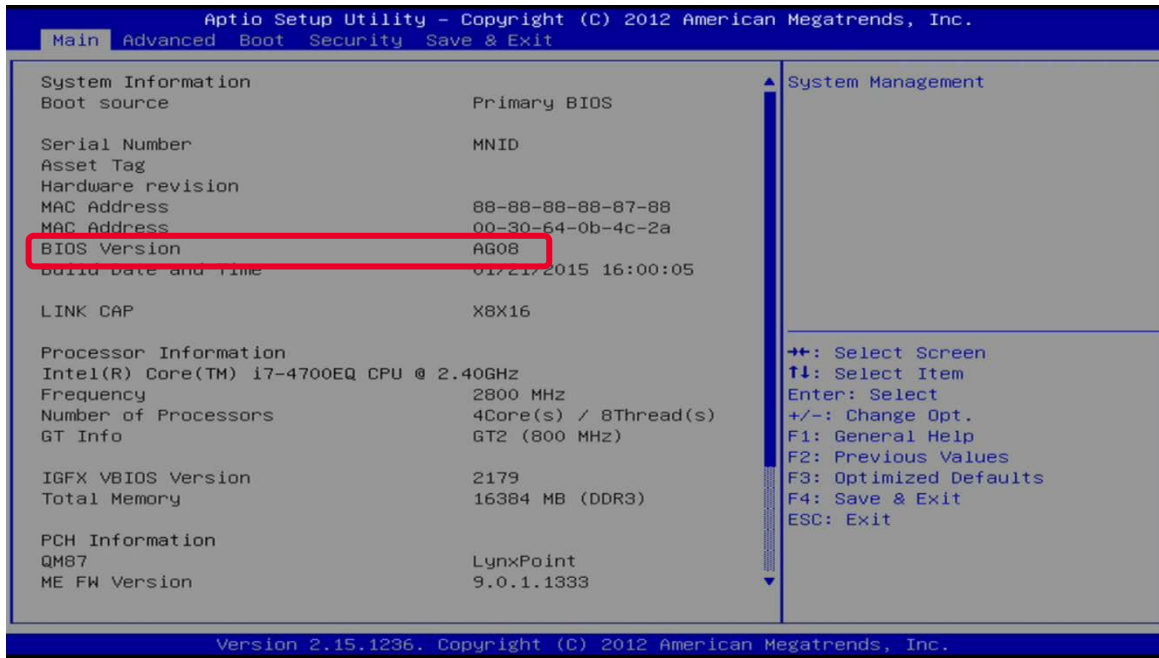
- 4) Press any key to continue.

```
C:\WINDOWS\system32\cmd.exe
AMI Firmware Update Utility v3.07.00
Copyright (C)2014 American Megatrends Inc. All Rights Reserved.
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Reading flash ..... done
Secure Flash enabled, recalculate ROM size with signature... Enable.
- FFS checksums ..... ok
Loading capsule to secure memory buffer ... done
Erasing Boot Block ..... done
Updating Boot Block ..... done
Verifying Boot Block ..... done
Erasing Main Block ..... done
Updating Main Block ..... done
Verifying Main Block ..... done
Erasing NURAM Block ..... done
Updating NURAM Block ..... done
Verifying NURAM Block ..... done
Erasing RomHole Block ..... done
Updating RomHole Block ..... done
Verifying RomHole Block ..... done
Press any key to continue . . . -
```

- 5) Press any key to continue. This closes the Command window. The BIOS update procedure is complete. You should verify the BIOS version as described on the following page.

Verify BIOS Version

- 1) Restart M9037A.
- 2) When the M9037A beeps Press the DEL key several times to enter the Setup Menu.
- 3) Ensure that the BIOS version is the correct BIOS version.



- 4) Exit the BIOS Setup Menu

