

# SP5B41 BIOS update procedure

Ver.1.0

I. Notes on executing BIOS update

- Exit all application programs.
- Touch operation is disabled when the update starts. Update the BIOS with a USB keyboard.
- The update may take several minutes.
- Do not perform any operations until the update is completed.
- If the update is not completed normally, SP5B41 may not work.

II. Prepare to update

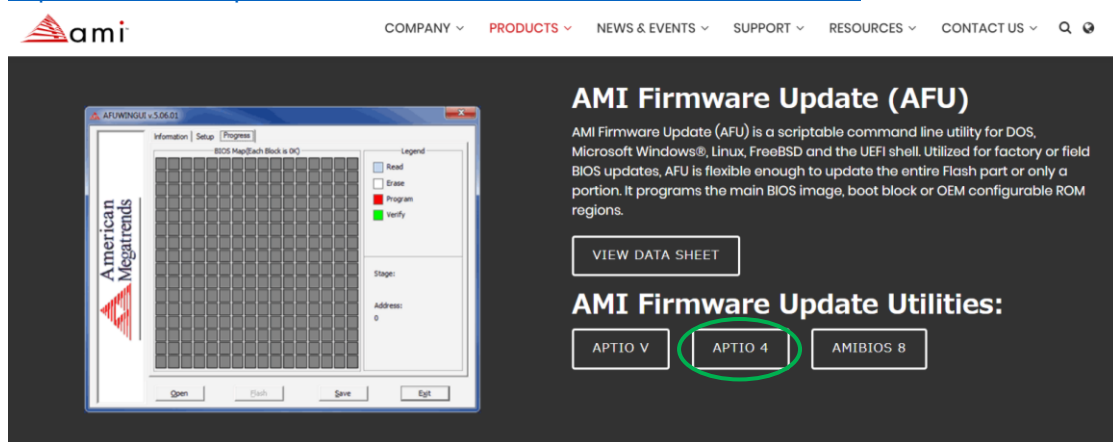
- SP5B41 main unit : Main unit that performs BIOS update
- USB storage (USB memory) : Stores downloaded BIOS update programs, etc.
- USB keyboard : Performs operations after starting the BIOS update, checks the version, and initializes the BIOS settings.

III. Obtain BIOS Update Tool

Operations are performed on a PC connected to the Internet.

1. Click the following link on your web browser to get the BIOS update tool from the destination site.

<https://ami.com/en/products/firmware-tools-and-utilities/bios-uefi-utilities/>



2. Click **APTIO 4** and move to the screen. Follow the instructions on the following pages and download the BIOS update tool.

3. Extract the downloaded file “Aptio\_4\_AMI\_Firmware\_Update\_Utility.zip”.

Folder structure is below:

- ▼ AMI AFU For Aptio 4
  - > afudos
  - > afuefi
  - ▼ afuwin
    - ▼ 32
      - ▼ afuwin32.zip
        - AfuWin32**
    - > 64

4. Copy files AFUWIN.EXE and amifldr32.sys in AfuWin32 to SP5B41\_BIOS\_UPDATE.

- AFUWIN.EXE**
- AFUWINGUI.EXE
- AMI\_Aptio\_AFU\_User\_Guide\_NDA.pdf
- amifldr32.sys**
- readme.txt

5. SP5B41\_BIOS\_UPDATE folder structure is below:

- AFUWIN.EXE
- amifldr32.sys
- OBRPF170.ROM
- SP5B41 BIOS update procedure\_en.pdf
- update.bat

6. Copy folder SP5B41\_BIOS\_UPDATE to any USB storage.

#### IV. Execute BIOS update

Perform subsequent operations on the SP5B41 that updates the BIOS.

7. Connect the created USB storage device and USB keyboard to SP5B41, and start SP5B41.

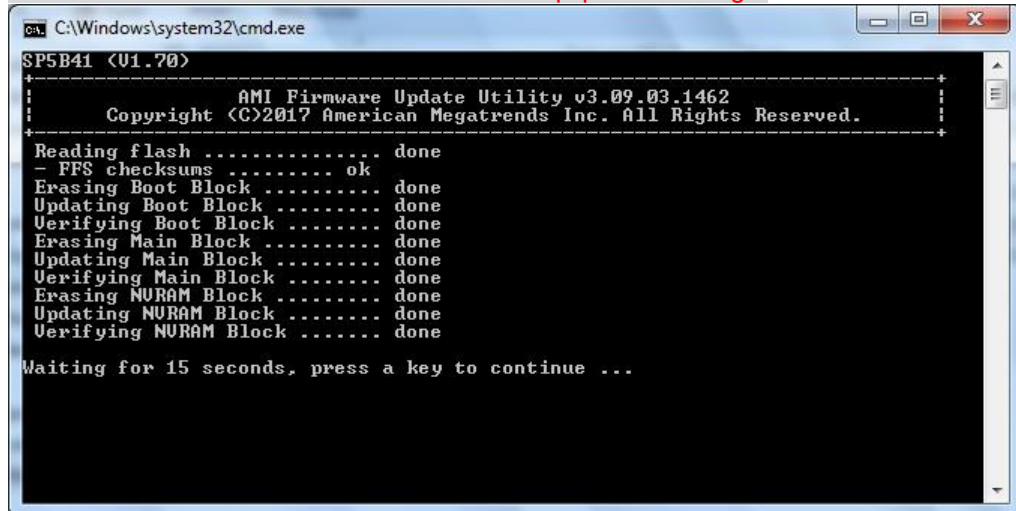
Please close all running applications before starting the update.

8. Execute the BIOS update boot file update.bat in the USB storage with Explorer or the like.

This may take several minutes.

Do not turn off the SP5B41 during update.

Failure to follow this instruction can result in equipment damage.



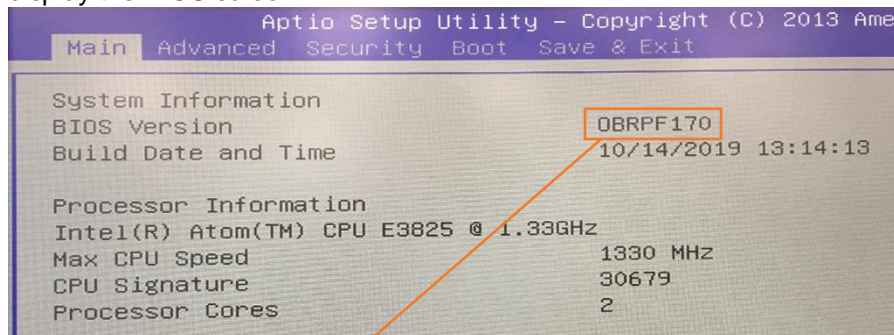
A screenshot of a Windows command prompt window titled "C:\Windows\system32\cmd.exe". The window displays the output of the BIOS update utility. The text shows the utility version (v3.09.03.1462) and copyright information (©2017 American Megatrends Inc.). It lists the progress of various steps: Reading flash, FFS checksums, Erasing/Updating/Verifying Boot Block, Erasing/Updating/Verifying Main Block, and Erasing/Updating/Verifying NURAM Block. All steps are marked as "done". The utility then prompts the user to wait for 15 seconds and press a key to continue.

```
C:\Windows\system32\cmd.exe
SP5B41 <V1.70>
-----
          AMI Firmware Update Utility v3.09.03.1462
          Copyright (C)2017 American Megatrends Inc. All Rights Reserved.
-----
Reading flash ..... done
- FFS checksums ..... ok
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

Waiting for 15 seconds, press a key to continue ...
```

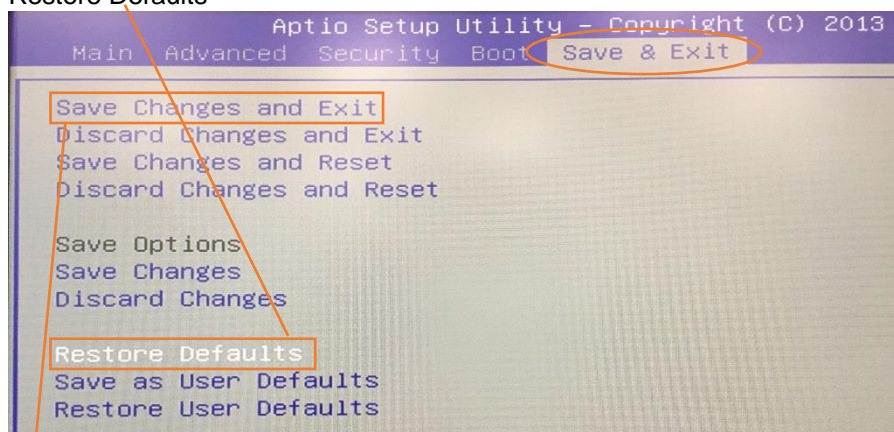
9. Automatically shut down 15 seconds after the process is completed.

10. Start SP5B41 and press the [DEL] key on the USB keyboard when the startup screen is displayed to display the BIOS screen.



11. Confirm BIOS Version is OBRPF170.

12. Restore Defaults



13. Save Changes and Exit