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## BIOS Update Instructions for Intel® Compute Card

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### Important Notes:

- The latest BIOS update files for Intel® Compute Card products are available on Intel's [Download Center](#).
- Downgrading the BIOS to an earlier version is not recommended. An earlier BIOS version may not include support for bug fixes, critical security updates, or support the product revisions currently being manufactured.
- If a BIOS update process is interrupted, your computer may not function properly. We recommend the process be done in an environment with a steady power supply (preferably with UPS).
- Before updating the BIOS, manually record all BIOS settings that have been changed (from default) so they can be restored after completing the BIOS update.
- All images in this example are for illustration purposes only. You need to select the correct BIOS files for your Intel® Compute Card.

### Choose an update method

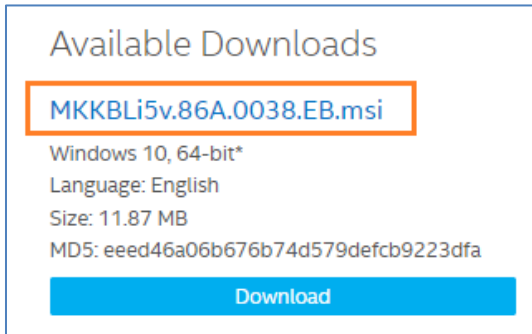
<a href="#">Express BIOS update</a>	Starts the BIOS update from within Windows*.
<a href="#">F7 update</a>	Starts the BIOS update by pressing the F7 key during the boot process (before the operating system loads).
<a href="#">Power button menu update</a>	Starts the BIOS update from the Power Button Menu (by pressing the Power Button for three seconds).
<a href="#">UEFI Shell update</a>	Starts the BIOS update from the EFI Shell.
<a href="#">BIOS Recovery</a>	In the unlikely event that a BIOS update is interrupted, it's possible the BIOS may be left in an unusable state. Try the BIOS Recovery method to fix the issue.

After any BIOS update, Intel recommends the following steps:

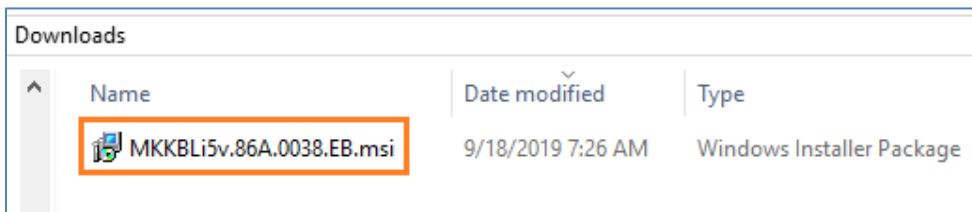
1. Press **F2** during boot to enter BIOS Setup.
2. Press **F9** to set BIOS default values.
3. Customize any BIOS settings, if desired (optional).
4. Press **F10** to save and exit BIOS Setup.

## Express BIOS Update Instructions

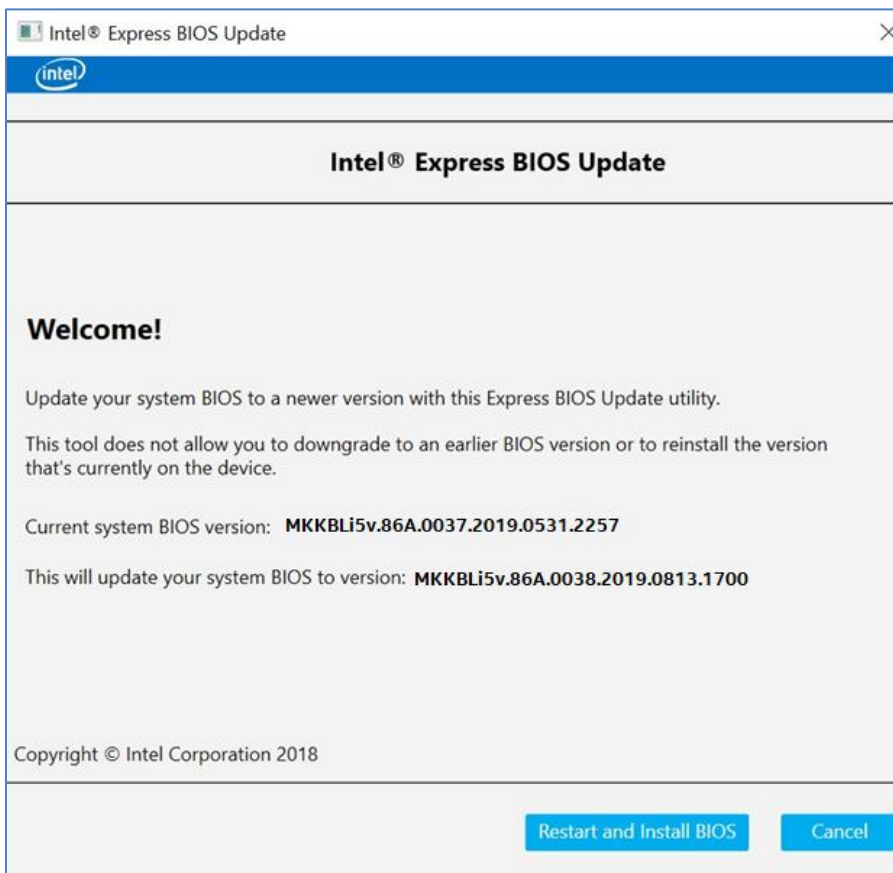
1. Download and save the Express BIOS update file to a temporary directory on the target Intel Compute Card. Example:



2. Double-click the \*.msi file to start the Express BIOS update.



3. Click **Restart and Install BIOS** on the Welcome screen.



- Upon restart, you will see the BIOS update process status window, similar to the image below. **DON'T power off the computer at any time during this stage.** When the BIOS update is complete, the computer restarts back into Windows.

```
Flashing motherboard firmware:

Current revision: MKKBLi5v.86A.0037.2019.0531.2257
Updating to revision: MKKBLi5v.86A.0038.2019.0813.1700

Preparing image for Boot Partition1 firmware ... [done]
Preparing image for Boot Partition2 firmware ... [done]
Preparing image for Graphic firmware ... [done]
Preparing image for EC firmware ... [done]
Flashing image for Boot Partition1 firmware ... [done]
Flashing image for Boot Partition2 firmware ... [done]
Flashing image for Graphic firmware ... [done]
Flashing image for EC firmware ... [done]

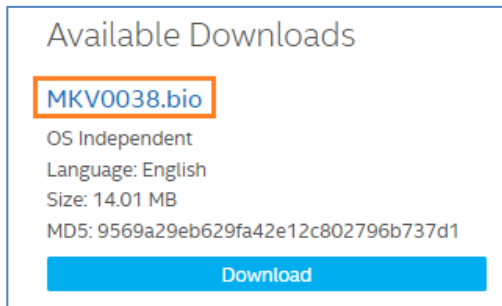
Flash update has completed successfully.
```

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## F7 Update Instructions

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- Download and save the BIOS update (.BIO) file to a portable USB device. Example:



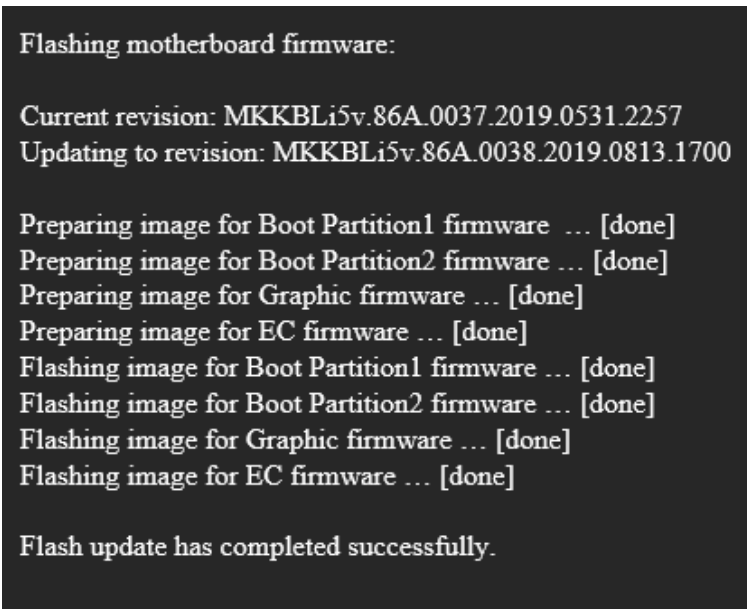
- When the Intel Compute Card is turned off, plug the USB device into the USB port of the dock device.
- Turn on the Intel Compute Card.
- During boot, when the F7 prompt is displayed, press **F7** to enter the BIOS Flash Update tool.
- Select the USB device from the media list and press Enter.



6. Select the .BIO file and press Enter



7. Confirm you want to update the BIOS by pressing Enter.
8. Wait 2-5 minutes for the update to complete.



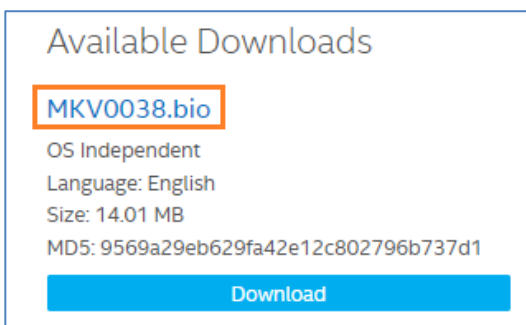
9. Restart the computer.

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## Power Button Menu Update Instructions

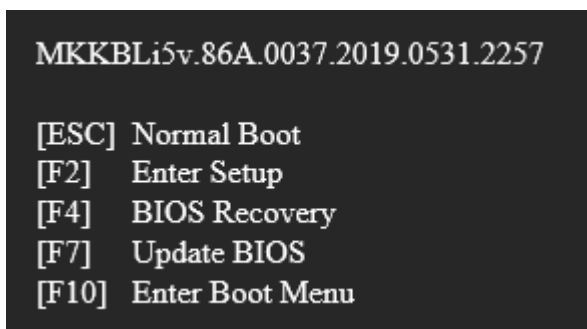
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1. Download and save the BIOS update (.BIO) file to a portable USB device. Example:

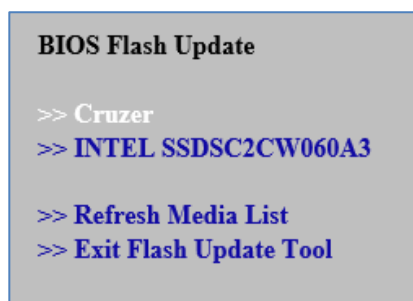


2. Plug the USB device into a USB port of the dock device when it is turned off (not in Hibernate or Sleep mode).
3. Press the power button and hold it down for three seconds. Release it before the four-second shutdown override.

4. The Power Button Menu appears.



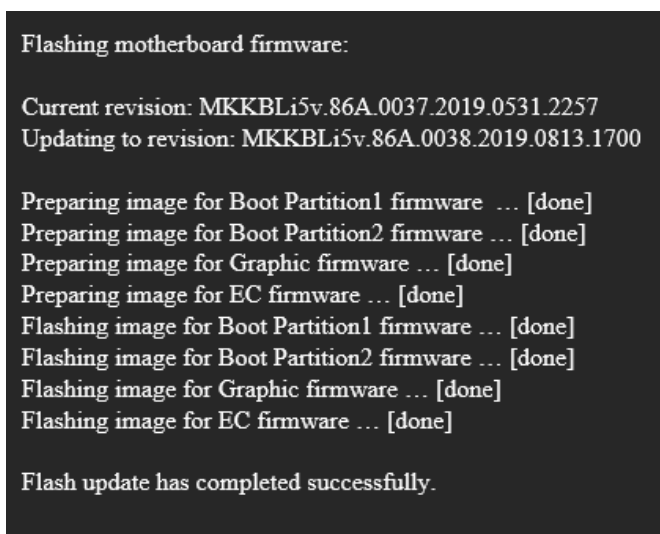
5. Press **F7** to perform a BIOS update.
6. Select the USB device from the media list and press Enter.



7. Select the .BIO file and press Enter



8. Confirm you want to update the BIOS by pressing Enter.
9. Wait 2-5 minutes for the update to complete.



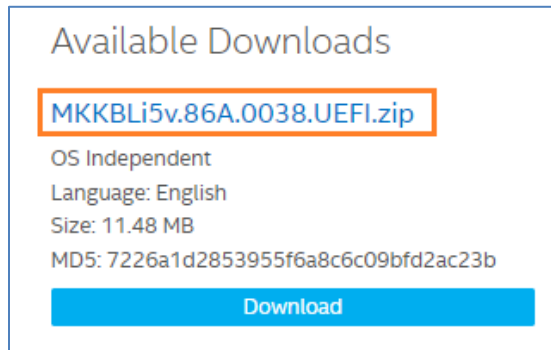
10. Restart the computer.

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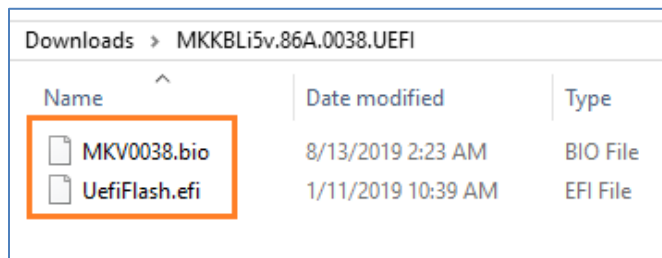
## UEFI Shell Update Instructions

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1. Download the UEFI Flash BIOS Update file. Example:



2. Double-click the \*.ZIP to extract its files.



3. Copy UefiFlash.efi and the .BIO file to the bootable USB device.
4. Connect the USB drive to a port on the Intel Compute Card.
5. Configure the BIOS of the target computer to boot to the EFI Shell:
  - a. Press **F2** during start to enter BIOS setup.
  - b. Go to **Advanced > Boot > Secure Boot**.
  - c. Disable Secure Boot, if enabled.
  - d. Go to **Advanced > Boot > Boot Configuration**.
  - e. In the Boot Devices pane, enable **Internal UEFI Shell**.
  - f. Press **F10** to save changes and exit BIOS Setup.
6. Press **F10** during boot to open the Boot Menu.
7. Select **UEFI: Built-in EFI Shell**.



8. Change the current directory to the USB flash drive by entering the command **fsX:** where X is the drive number of the USB flash drive from the device mapping list. Example: if your USB drive is fs3, then type **fs3:** and press enter.
9. At the command prompt, type **UefiFlash.efi XXX.BIO**, where XXX.BIO is the filename of the .BIO file and press Enter.

```
Shell> fs3:
fs3:\> uefiflash.efi cc0058.bio
UEFI BIOS Flash Update Tool v1.0
Copyright © 2018 Intel Corporation. All rights reserved.

Version: MKKBLi5v.86A.0038.2019.0813.1700
Capsule GUID: 539182B9-ABB5-4391-B69A-E3A943F72FCC
Header Size: 32
Image Size: 11706400
Flags: 00010000

Are you sure you want to update to this BIOS version? (y/n)
```

10. Press Y to begin the update.
11. Wait for the BIOS update to complete.

```
Flashing motherboard firmware:

Current revision: MKKBLi5v.86A.0037.2019.0531.2257
Updating to revision: MKKBLi5v.86A.0038.2019.0813.1700

Preparing image for Boot Partition1 firmware ... [done]
Preparing image for Boot Partition2 firmware ... [done]
Preparing image for Graphic firmware ... [done]
Preparing image for EC firmware ... [done]
Flashing image for Boot Partition1 firmware ... [done]
Flashing image for Boot Partition2 firmware ... [done]
Flashing image for Graphic firmware ... [done]
Flashing image for EC firmware ... [done]

Flash update has completed successfully.
```

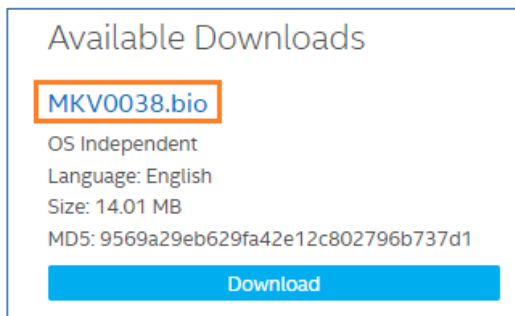
12. The computer will restart when finished.
13. Set the BIOS back to original settings:
  - a. Restart the computer.
  - b. Press **F2** during start to enter BIOS setup.
  - c. Go to **Advanced > Boot > Boot Configuration**.
  - d. In the Boot Devices pane, disable **Internal UEFI Shell**.
  - e. Go to **Advanced > Boot > Secure Boot**.
  - f. Enable Secure Boot, if it was originally enabled.
  - g. Press **F10** to save changes and exit BIOS Setup.

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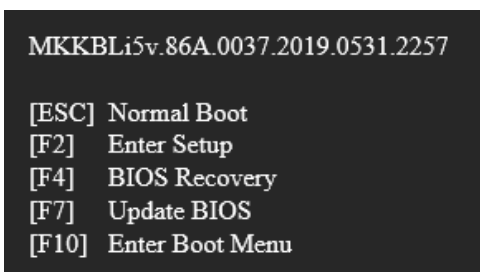
## BIOS Recovery Instructions

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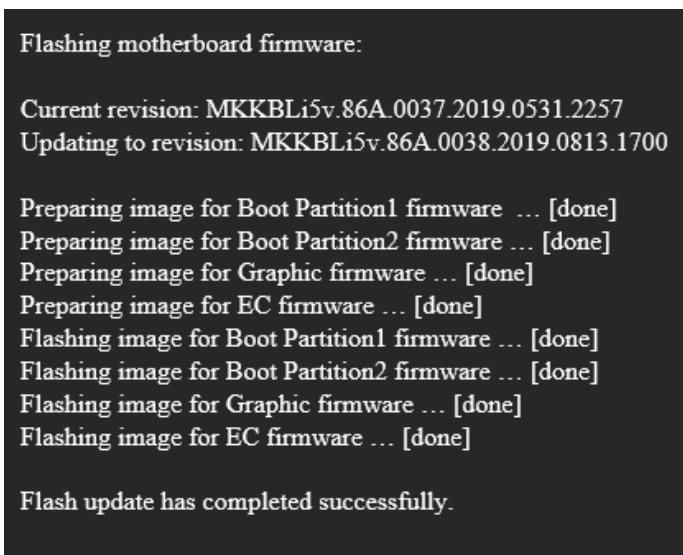
1. Download and save the BIOS update (.BIO) file to a portable USB device. Example:



2. Plug the USB device into a USB port of the dock device when it is turned off (not in Hibernate or Sleep mode).
3. Press the power button and hold it down for three seconds. Release it before the four-second shutdown override.
4. The Power Button Menu appears.



5. Press **F4** to perform a BIOS Recovery.
6. Wait 2-5 minutes for the update to complete.



7. The computer either turns off when the recovery process is complete or prompts you to turn it off.
8. Restart the computer.