

# BIOS

## Update and Management



# Motherboard

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# BIOS Update and Management

This manual discusses the ASUS-exclusive utilities or tools that you can use in updating and managing the BIOS setup program on your motherboard.



Save a copy of the original motherboard BIOS file to a USB flash disk in case you need to restore the BIOS in the future.

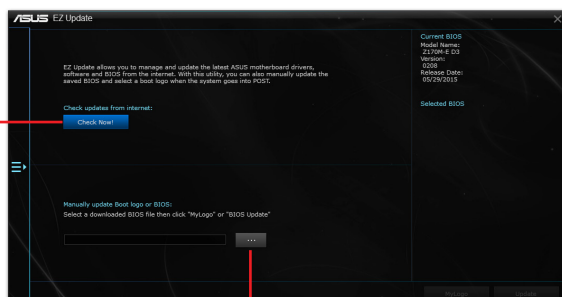
## Chapter 1: UEFI BIOS - Graphics Mode

### 1.1 EZ Update

EZ Update is a utility that allows you to automatically update your motherboard's softwares, drivers and the BIOS version easily. With this utility, you can also manually update the saved BIOS and select a boot logo when the system goes into POST.

To launch EZ Update, click **EZ Update** on the AI Suite 3 main menu bar.

Click to automatically update your motherboard's driver, software and firmware



Click to find and select the BIOS from file

Click to select a boot logo

Click to update the BIOS



EZ Update requires an Internet connection either through a network or an ISP (Internet Service Provider).

## 1.2 ASUS EZ Flash 2

The ASUS EZ Flash 2 feature allows you to update the BIOS without using an OS-based utility.



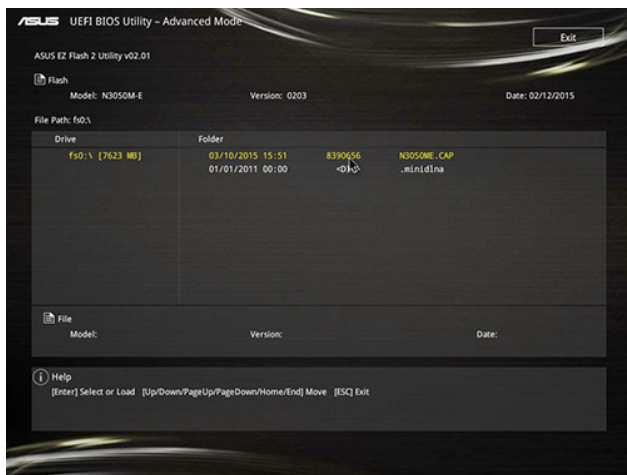
Before you start using this utility, download the latest BIOS file from the ASUS website at [www.asus.com](http://www.asus.com)

### To update the BIOS using EZ Flash 2:

1. Insert the USB flash disk that contains the latest BIOS file to the USB port.
2. Enter the **Advanced Mode** of the BIOS setup program. Go to the **Tool** menu to select **ASUS EZ Flash 2 Utility** and press <Enter> to enable it.
3. Press <Tab> to switch to the Drive field.
4. Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.
5. Press <Tab> to switch to the Folder Info field.
6. Press the Up/Down arrow keys to find the BIOS file, and then press <Enter> to perform the BIOS update process. Reboot the system when the update process is done.



- This function supports USB flash disks with FAT 32/16 format and single partition only.
- DO NOT shut down or reset the system while updating the BIOS to prevent system boot failure!

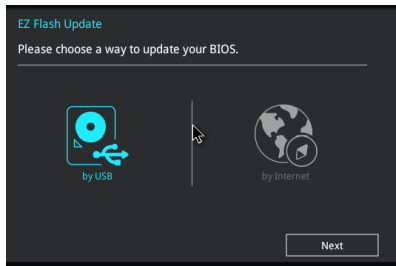


## 1.3 ASUS EZ Flash 3

The ASUS EZ Flash 3 feature allows you to update the BIOS without using an OS-based utility.



- Ensure that you load the BIOS default settings to ensure system compatibility and stability. Select the **Load Optimized Defaults** item under the Exit menu. For details, refer to the section **Exit Menu** in your motherboard user manual.
- Check your Internet connection before updating the BIOS via the Internet.



### To update the BIOS using EZ Flash 3:

1. Enter the **Advanced Mode** of the BIOS setup program. Go to the **Tool** menu to select **ASUS EZ Flash 3 Utility** and press <Enter> to enable it.
2. Follow the steps below to update the BIOS via USB or Internet.

#### Via USB

- a) Insert the USB flash disk that contains the latest BIOS file to the USB port, then select **by USB**.
- b) Press <Tab> to switch to the **Drive** field.
- c) Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.
- d) Press <Tab> to switch to the **Folder Info** field.
- e) Press the Up/Down arrow keys to find the BIOS file, and then press <Enter> to perform the BIOS update process.

#### Via the Internet

- a) Select **by Internet**.
  - b) Press the Left/Right arrow keys to select an Internet connection method, and then press <Enter>.
  - c) Follow the onscreen instructions to complete the update.
3. Reboot the system when the update process is done.



DO NOT shut down or reset the system while updating the BIOS to prevent system boot failure!

## 1.4 ASUS CrashFree BIOS 3

The ASUS CrashFree BIOS 3 is an auto recovery tool that allows you to restore the BIOS file when it fails or gets corrupted during the updating process. You can restore a corrupted BIOS file using the motherboard support DVD or a USB flash drive that contains the updated BIOS file.



- 
- Before using this utility, rename the BIOS file in the removable device.
  - The BIOS file in the support DVD may not be the latest version. Download the latest BIOS file from the ASUS website at [www.asus.com](http://www.asus.com).
- 

### Recovering the BIOS

#### To recover the BIOS:

1. Turn on the system.
2. Insert the support DVD to the optical drive or the USB flash drive that contains the BIOS file to the USB port.
3. The utility automatically checks the devices for the BIOS file. When found, the utility reads the BIOS file and enters ASUS EZ Flash 3 utility automatically.
4. The system requires you to enter BIOS Setup to recover BIOS settings. To ensure system compatibility and stability, we recommend that you press <F5> to load default BIOS values.



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DO NOT shut down or reset the system while updating the BIOS! Doing so can cause system boot failure!

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## Chapter 2: UEFI BIOS - Text Mode

### 2.1 ASUS EZ Flash

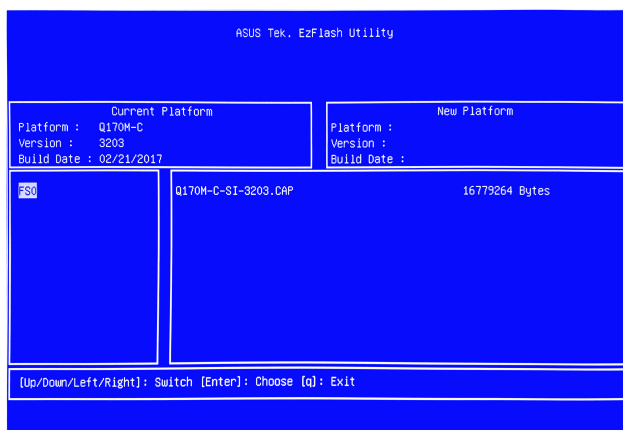
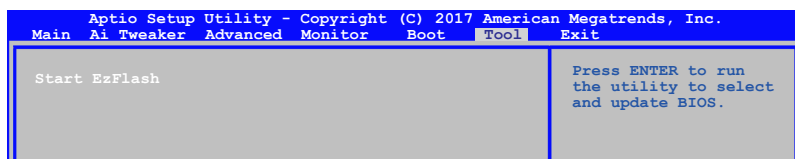
The ASUS EZ Flash feature allows you to update the BIOS without using an OS-based utility.



- Before you start using this utility, download the latest BIOS file from the ASUS website at [www.asus.com](http://www.asus.com)
- Check your Internet connection before updating the BIOS via the Internet.

#### To update the BIOS using EZ Flash:

1. Insert the USB flash disk that contains the latest BIOS file to the USB port.
2. Enter the BIOS setup program. Go to the **Tool** menu to select **Start EzFlash** and press <Enter> to enable it.



3. Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.
4. Press the Left/Right arrow keys to switch to the Folder Info field.
5. Press the Up/Down arrow keys to find the BIOS file, and then press <Enter> to perform the BIOS update process. Reboot the system when the update process is done.



- This function supports USB flash disks with FAT 32/16 format and single partition only.
- DO NOT shut down or reset the system while updating the BIOS to prevent system boot failure!



## 2.2 ASUS BIOS Updater

ASUS BIOS Updater allows you to update the BIOS in DOS environment.



The screen captures used in this section are for reference only and may not be exactly the same as actually shown on your computer screen.

### Before updating BIOS

- Prepare the motherboard support DVD and a USB flash drive.
- Download the latest BIOS file and BIOS Updater from <http://support.asus.com> and save them in your USB flash drive.



NTFS is not supported under FreeDOS environment. Ensure that your USB flash drive is in single partition and in FAT32/16 format.

- Turn off the computer.
- Ensure that your computer has a DVD optical drive.

### Booting the system in DOS environment

#### To boot the system in DOS:

1. Insert the USB flash drive with the latest BIOS file and BIOS Updater to the USB port.
2. Boot your computer then press <F8> to launch the select boot device screen.
3. When the select boot device screen appears, insert the Support DVD into the optical drive then select the optical drive as the boot device.

#### Please select boot device:

↑ and ↓ to move selection  
ENTER to select boot device  
ESC to boot using defaults

P2: ST3808110AS (76319MB)  
aigo miniking (250MB)  
UEFI: (FAT) ASUS DRW-2014L1T(4458MB)  
P1: ASUS DRW-2014L1T(4458MB)  
UEFI: (FAT) aigo miniking (250MB)  
Enter Setup

4. When the booting message appears, press <Enter> within five (5) seconds to enter FreeDOS prompt.

```
ISOLINUX 3.20 2006-08-26 Copyright (C) 1994-2005 H. Peter Anvin
A Bootable DVD/CD is detected. Press ENTER to boot from the DVD/CD.
If no key is pressed within 5 seconds, the system will boot next priority
device automatically. boot:
```

- On the FreeDOS prompt, type **d:** then press <Enter> to switch the disk from Drive C (optical drive) to Drive D (USB flash drive).

```
Welcome to FreeDOS (http://www.freedos.org) !  
C:/> d:  
D:/>
```

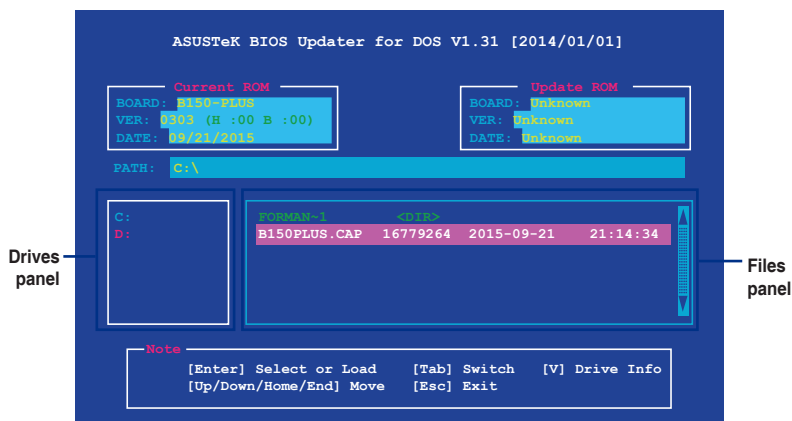
## Updating the BIOS file

### To update the BIOS file:

- On the FreeDOS prompt, type **bupdater /g** and press <Enter>.

```
D:/> bupdater /g
```

- On the BIOS Updater screen, press <Tab> to switch from Files panel to Drives panel then select **D:**.



- Press <Tab> to switch from Drives panel to Files panel then press <Up/Down or Home/End> keys to select the BIOS file and press <Enter>.
- After the BIOS Updater checks the selected BIOS file, select **Yes** to confirm the BIOS update.

Are you sure you want to update the BIOS?

Yes

No



The BIOS Backup feature is not supported due to security regulations.

5. Select **Yes** then press <Enter>. When BIOS update is done, press <ESC> to exit BIOS Updater.
6. Restart your computer.



DO NOT shut down or reset the system while updating the BIOS to prevent system boot failure.

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Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the **Load Optimized Defaults** item under the **Exit BIOS** menu.

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