BIOS Update Instruction for the Vig750s Motherboard PMPAS750-Vig750s

- Before initiating a BIOS update, be sure to read and precisely follow the instructions included in this document.

- If a BIOS update process is interrupted or the incorrect BIOS is flashed, your system may not function properly and can possibly damage the motherboard.

- Before updating the BIOS on the Viglen Desktop Board, manually record all BIOS settings that have been changed (from default) so they can be restored after completing the BIOS update

There are up to four methods of updating BIOS to the latest Viglen approved version.
The number of options made available for any particular board may vary depending on BIOS Support, drive support and BIOS update file size. You only need to use one.

- EZ-Flash 3 Update
- Recovering the BIOS - CrashFree BIOS 3 (recover corrupted BIOS)
- Windows\WinPE BIOS Update
- Express BIOS update

Latest BIOS files and Utility are available from Viglen FTP site:
http://download.viglen.co.uk/files/Motherboards/Vig750s

BIOS Update Instructions using EZ-Flash Method:

For this method, you will require a Flash USB device and required BIOS file.

1. Insert the USB flash disk that contains the latest BIOS file to the USB port.
2. Select <Del> or <F2> to Load BIOS Setup.
3. Enter the **Advanced Mode (F7)** of the BIOS setup program. Go to the **Tool** menu to select **ASUS EZ Flash Utility** and press <Enter> to enable it.
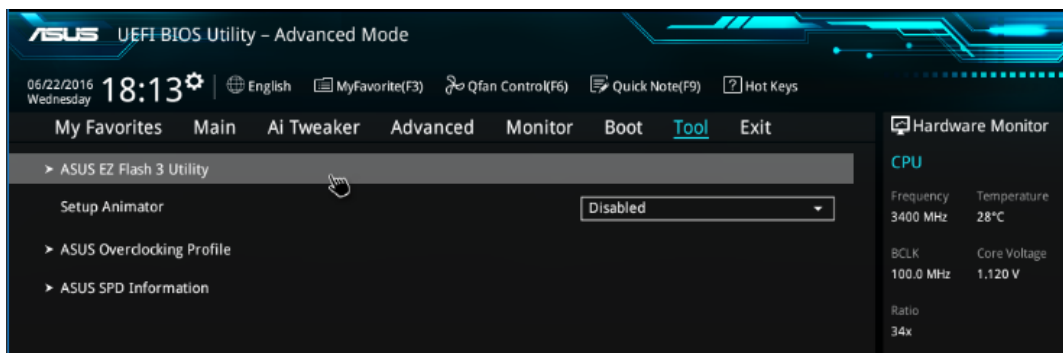

Figure 1 – ASUS EZ Flash 3 Utility

4. Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.

5. Select the correct BIOS file, and then press <Enter> to perform the BIOS update process.
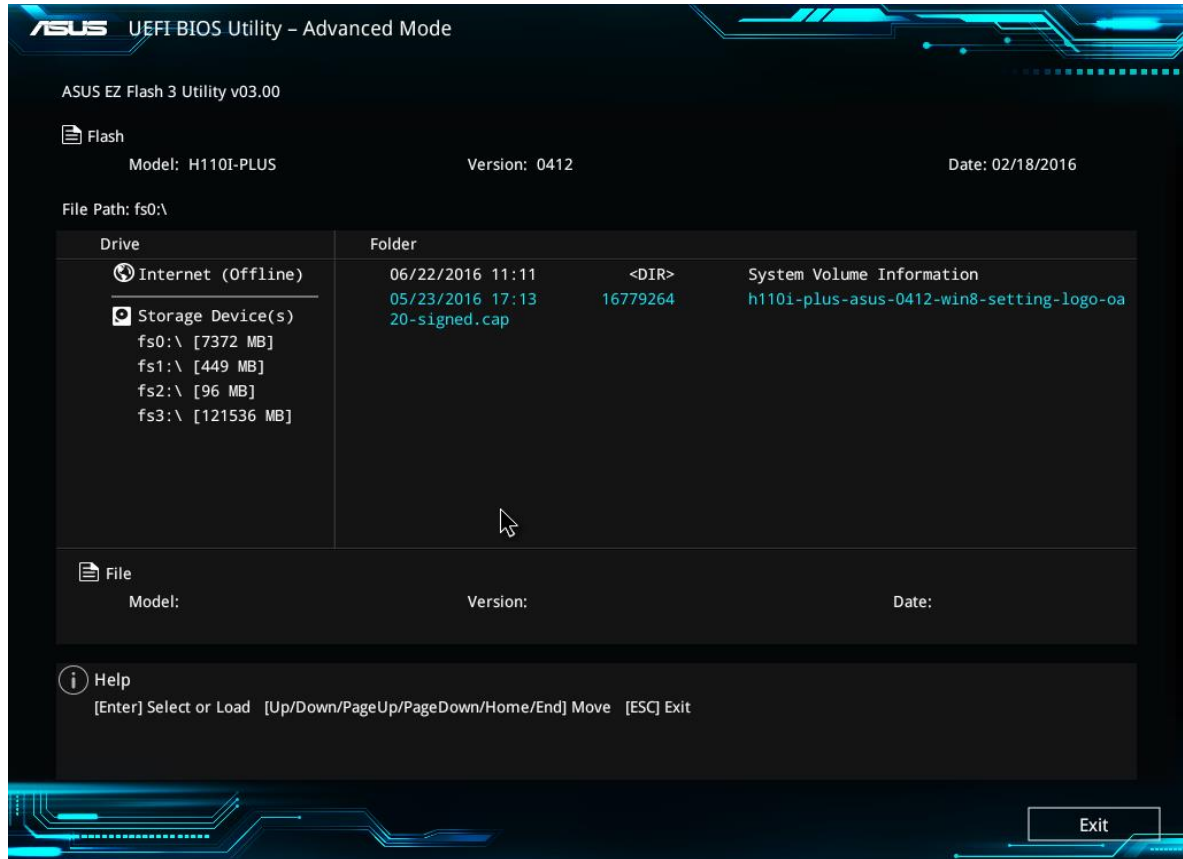

Figure 2

6. Reboot the system when the update process is completed.

7. After restarting load BIOS setup menu by pressing < Del> or <F2> key.
8. Load Default BIOS settings by pressing <F5> key.
9. Press F10 to Save and Exit.

Note:

   • *This function supports USB flash disks formatted using FAT32/16 on a single partition only.*
   • *Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu.*

IMPORTANT!!!!!

During the update process DO NOT shut down the PC or interrupt the process, this could cause damage to the motherboard.

Recovering the BIOS - CrashFree BIOS 3

The CrashFree BIOS 3 is an auto recovery tool that allows you to restore the BIOS 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 into*
> **H110TP.CAP**

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.
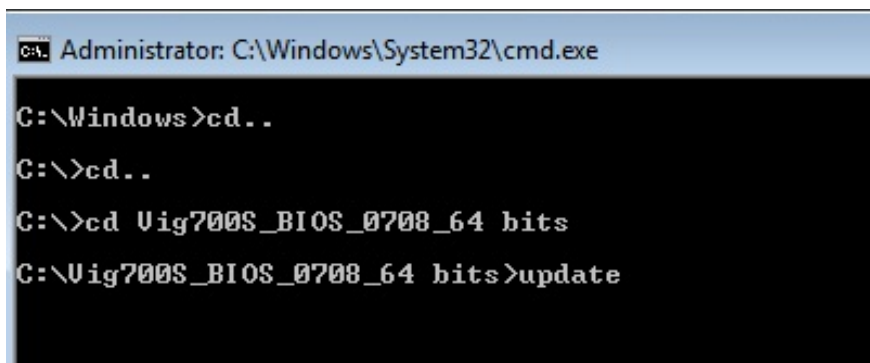
DO NOT shut down or reset the system while updating the BIOS! Doing so can cause system to fail!

Windows\WinPE BIOS Update

Windows

1. Save the BIOS update file to a temporary directory.

2. Extract necessary files.

3. Open Commend Prompt

    a. Type 'CMD' under Search.
    b. Run Commend Prompt as Administrator

4. In commend prompt navigate to the extracted BIOS folder. (i.e. **Vig700S_BIOS_0708_64 bits**)

Figure 3

5. At the prompt, type **update** to launch the BIOS updates process.

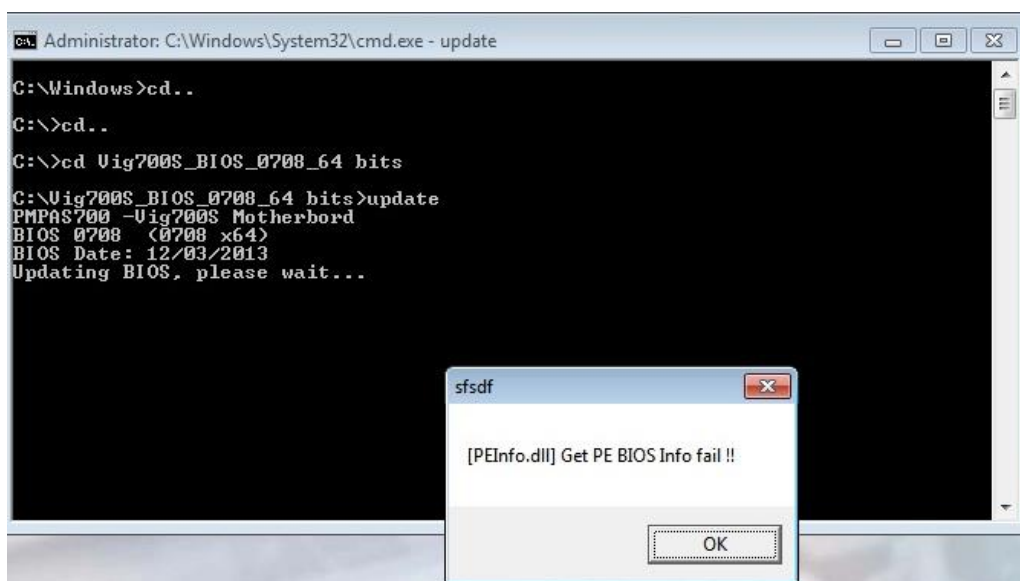During BIOS update process if pop message appears select OK to continue.

Figure 4

6. BIOS update process will start.

CAUTION!!! DO NOT POWER DOWN YOUR SYSTEM before the update is completed.
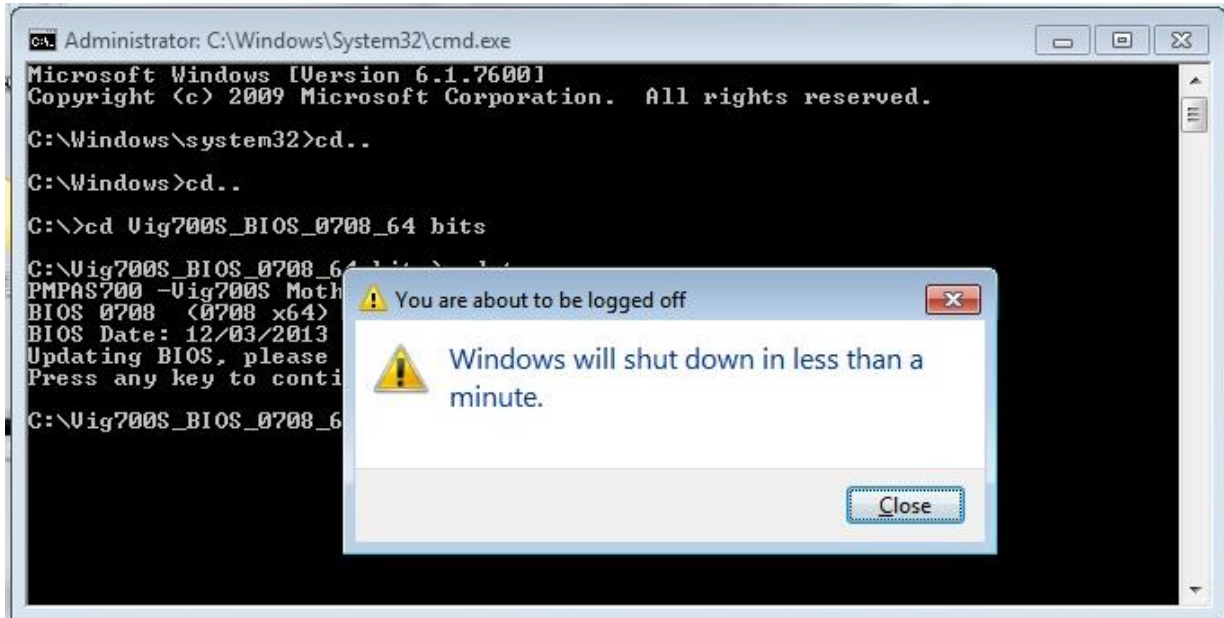

Figure 5

7. Once BIOS update is completed, pop up message will appear "**Windows will shut down in less than a minute**".

System will log off and restart after one minute.

8. During system re-boot, load BIOS setup menu by pressing < Del> or <F2> key.

9. Load Default BIOS settings by pressing <F5> key.

10. Press <F10> to save and exit.

Latest BIOS files and Utility are available from Viglen FTP site:
http://download.viglen.co.uk/files/Motherboards/Vig730S/

BIOS settings for Windows 7 and Windows 10 O/S

Windows UEFI mode for Windows 8.1/10

Vig830s system configured with Windows 8/8.1 will have following default BIOS settings. If you wish to downgrade to Windows 7 then BIOS must be configured to Non-UEFI mode.

Boot\CSM (Compatibility Support module)

Launch CSM	**[Enabled]**
Boot Device Control	**[UEFI Only]**
Boot from Network Devices	**[UEFI drivers first]**
Boot from Storage Devices	**[UEFI drivers first]**
Boot from PCI-E/PCI Expansion Devices	**[UEFI drivers first]**

Boot\Secure Boot Menu

OS Type [**Windows UEFI mode**]

Note
Please ensure the changes of the following settings are performed by personnel with some previous experience/knowledge of altering BIOS settings.

Enabling Windows UEFI mode for Windows 8/8.1 & 10 Operating System

1. From the BIOS main menu bar select '**Advanced**'

2. Navigate to the **Boot** sub menu

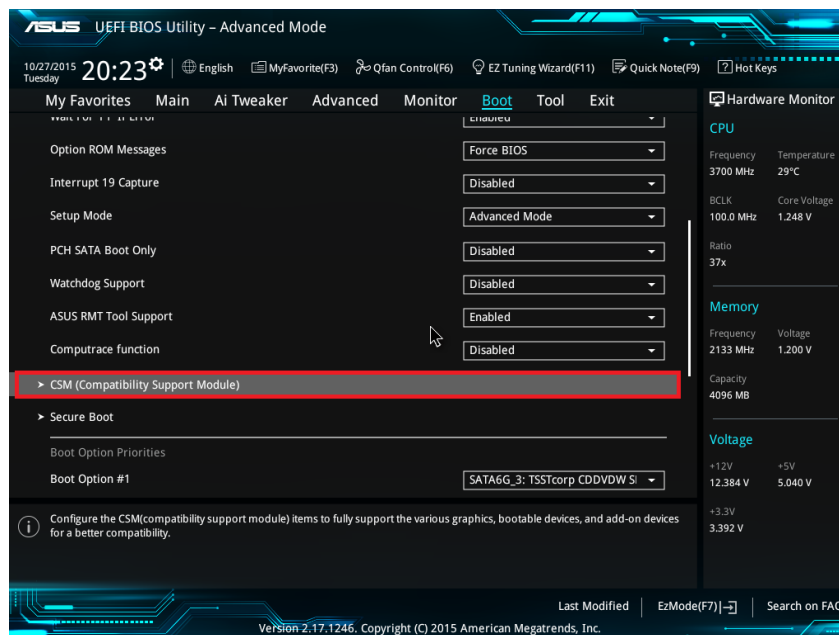3. Select **CSM (Compatibility Support Module)**

Figure 6

4. In the CSM **(Compatibility Support Module)** change following settings for Windows 8/8.1 & 10

Launch CSM   **[Enabled]**
Boot Device Control   **[UEFI Only]**
Boot from Network Devices   **[UEFI drivers first]**
Boot from Storage Devices   **[UEFI drivers first]**
Boot from PCI-E/PCI Expansion Devices   **[UEFI drivers first]**
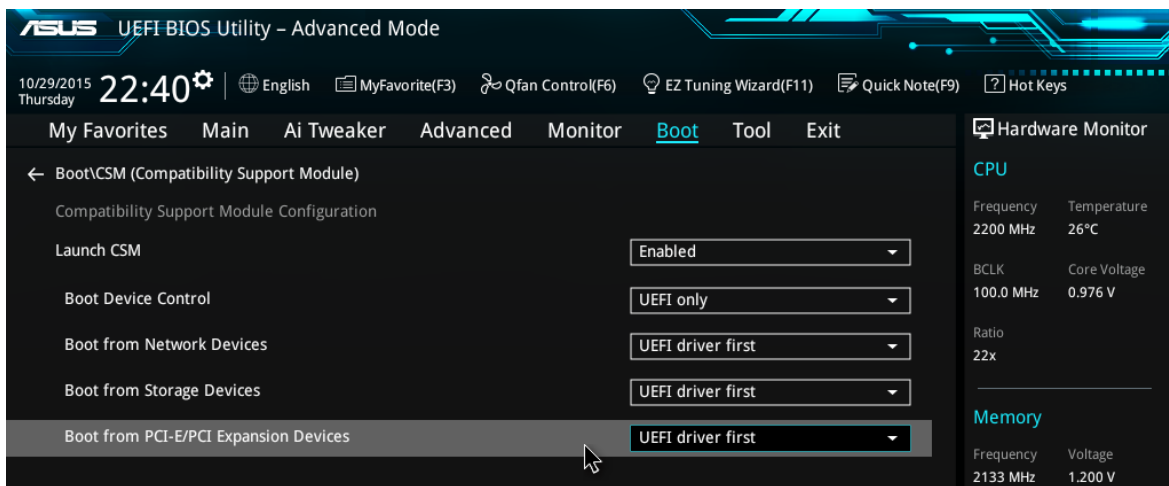

Figure 7-Compatibility Support Module

When these settings have been changed, press <Esc> or the Back Button to go back to the Boot Sub Menu to enable **Windows UEFI** *for secure boot.*

5. Navigate to **Secure Boot** from within the Boot sub menu.
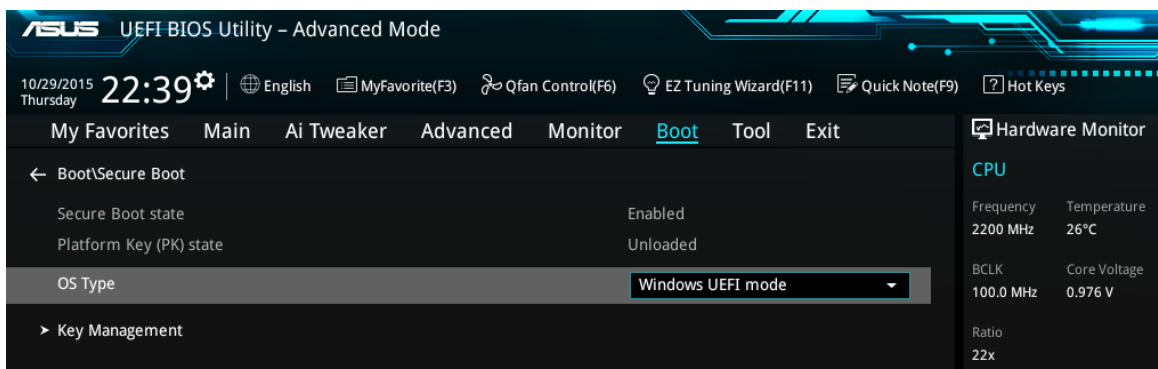6. Change **OS Type** to **Windows UEFI**.

Figure 8-Secure Boot Menu

7. Select **Key Management**.

8. Select **Install default Secure Boot keys** and select **Yes** to proceed.
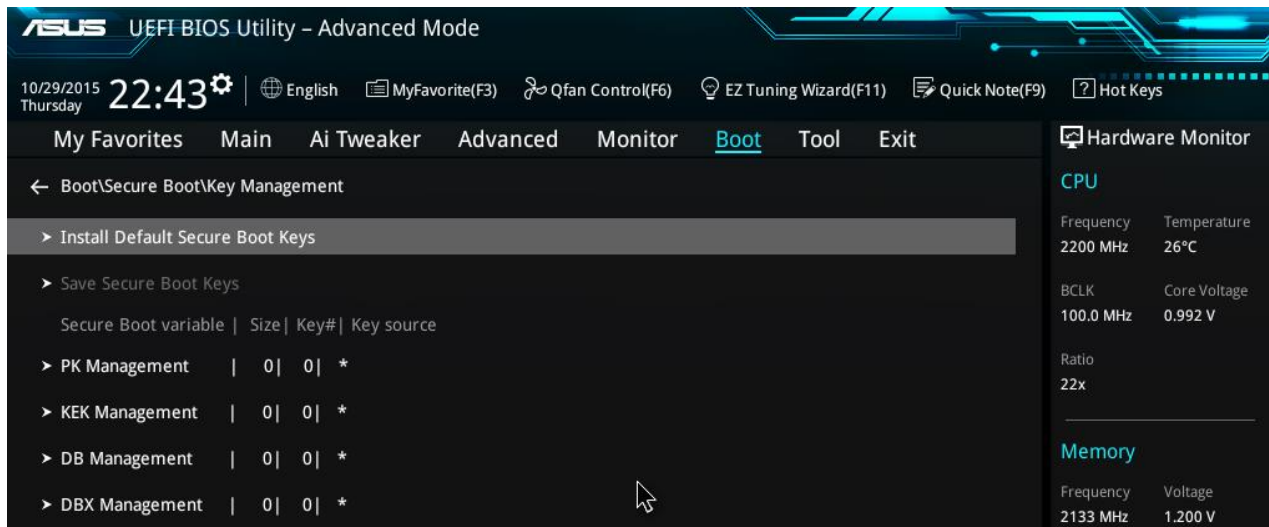

Figure 9-Key Management

9. Press **F10** to Save and exit.

If you need to check changes have been saved go back into BIOS after reboot and navigate into Secure Boot settings. Check that **Secure Boot state** *is* **enabled** *and* **Platform Key (PK) state** *is* **Loaded.**
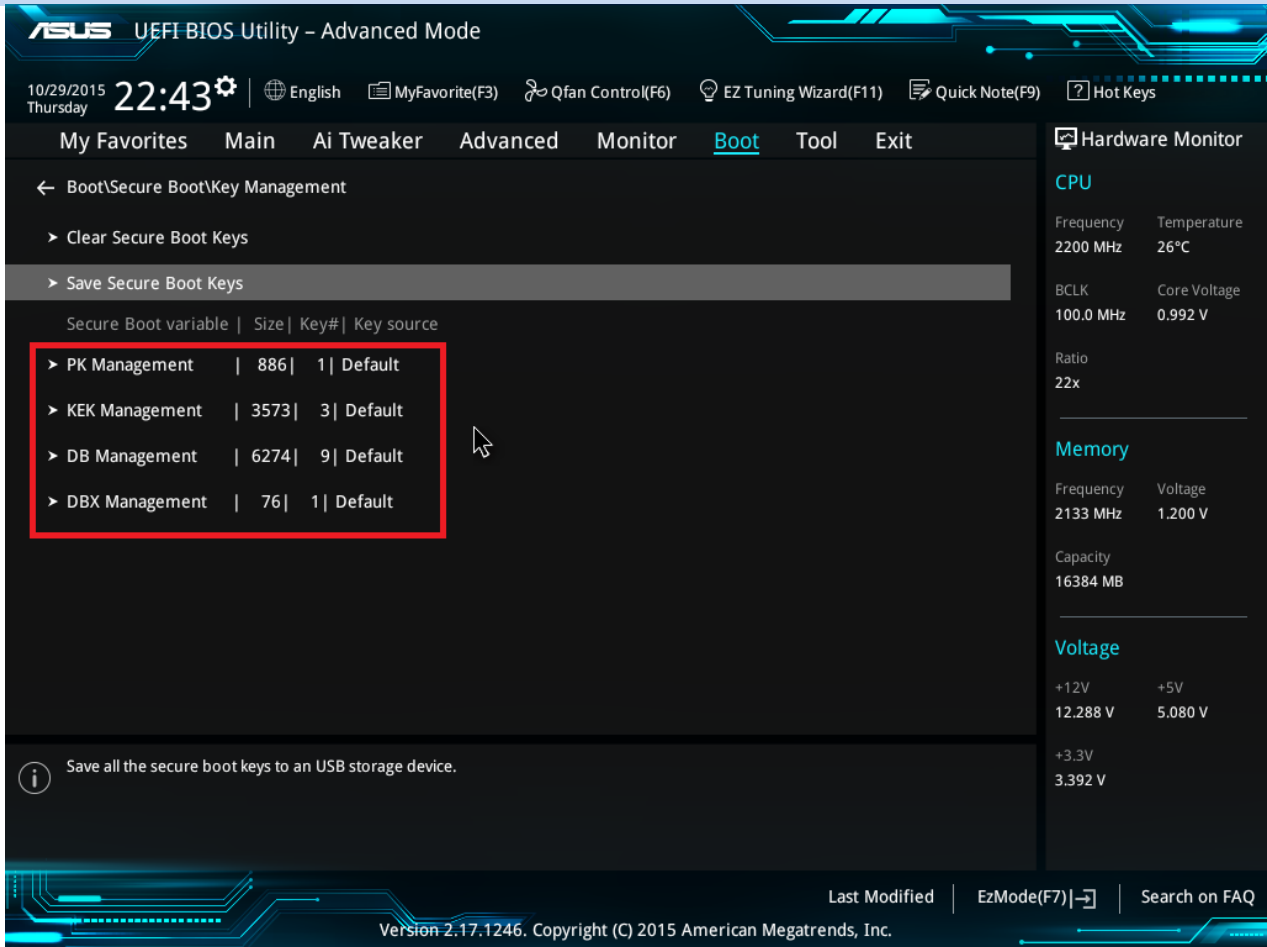
Figure 10- Key management – Key loaded

BIOS Settings for Windows 7 Operating System (Non UEFI Mode)

To downgrade to Windows 7 operating system, BIOS settings must be changed to boot into Legacy BIOS mode (non UEFI Mode).

For Windows 7 operating system BIOS should be configured as per below settings

Boot\CSM (Compatibility Support module)

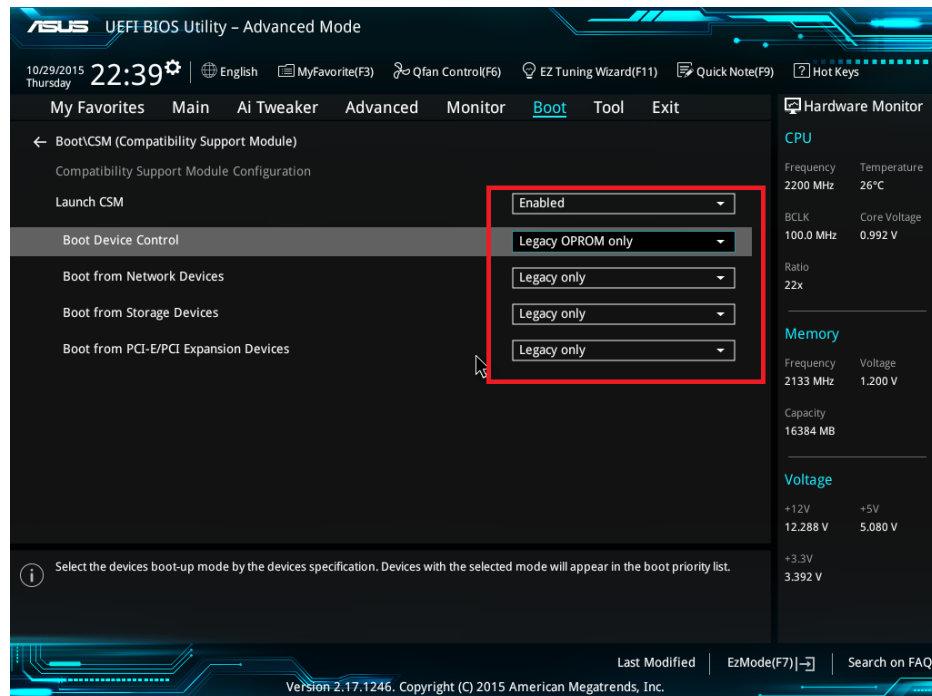|	
Launch CSM	**[Enabled]**
Boot Device Control	**[UEFI and Legacy OPROM first]**
Boot from Network Devices	**[Legacy OPROM]**
Boot from Storage Devices	**[Legacy OPROM]**
Boot from PCI-E/PCI Expansion Devices	**[Legacy OPROM]**

Figure 11 -Windows 7 BIOS settings
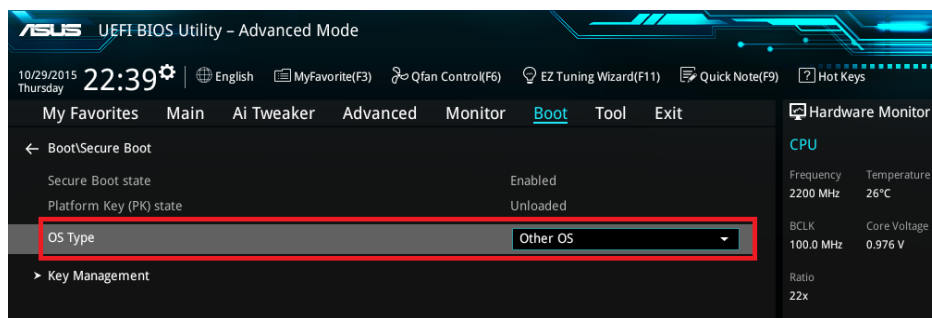
Boot\Secure Boot Menu
OS Type [**Other OS**]

Figure 12 Windows 7 BIOS settings

Express BIOS Update

Self-extracting Windows*-based update file, designed to be used under Windows systems.

1. Save the Express BIOS update file to a temporary folder on the target system.
2. Double-click the *.EXE file to run the Express BIOS update.
3. Follow all prompts.
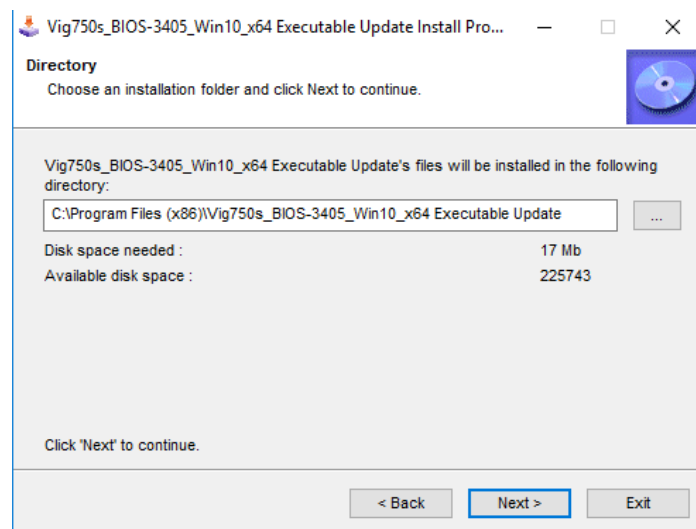
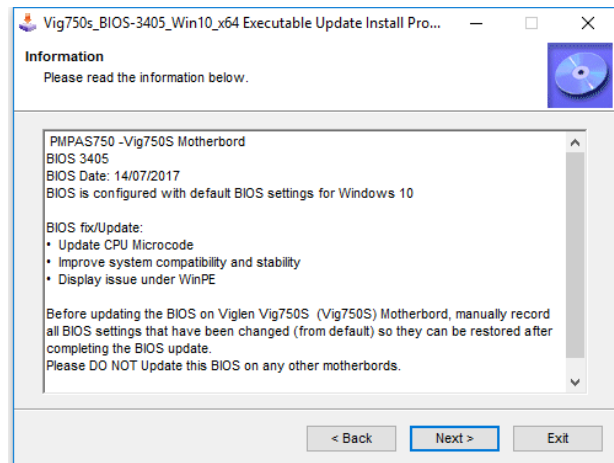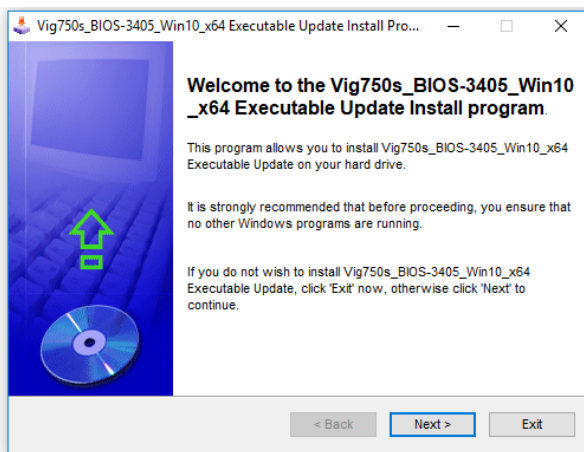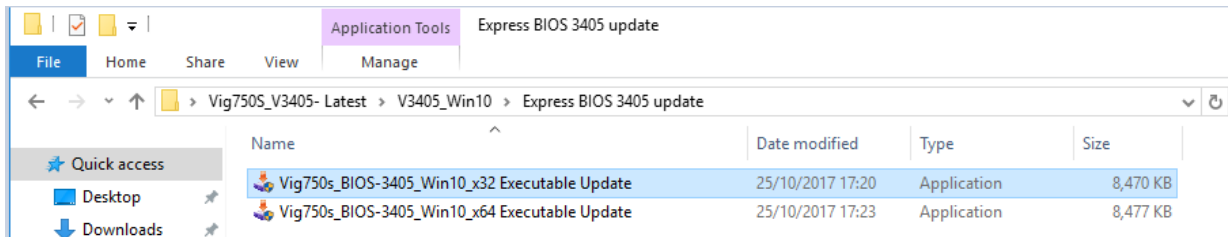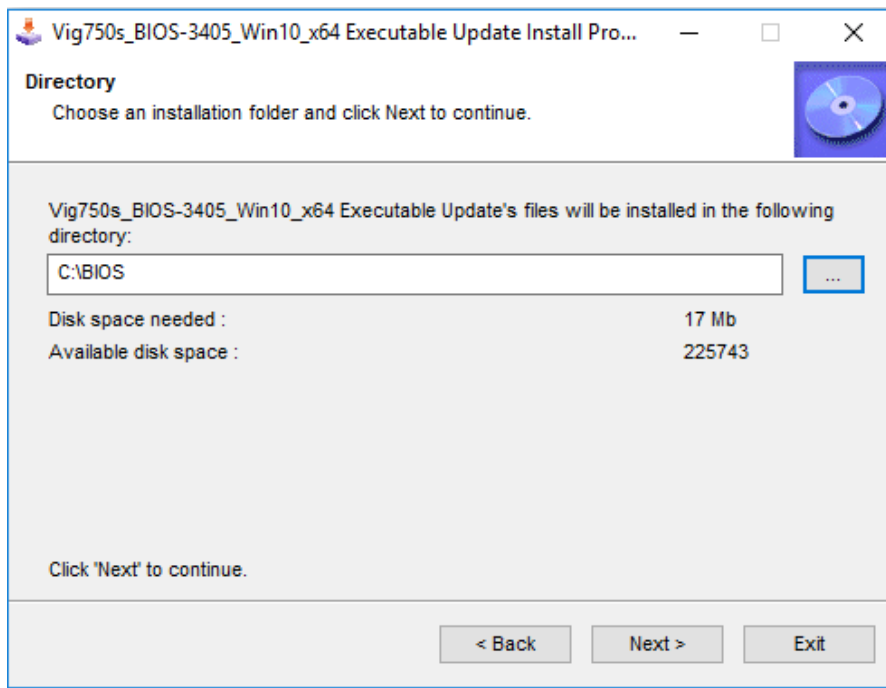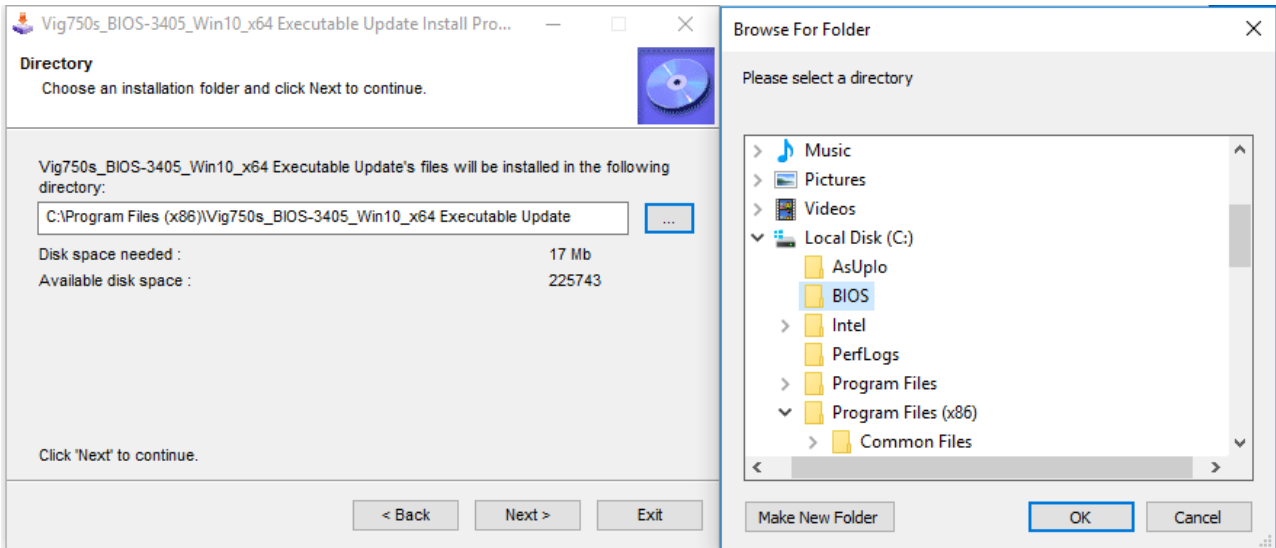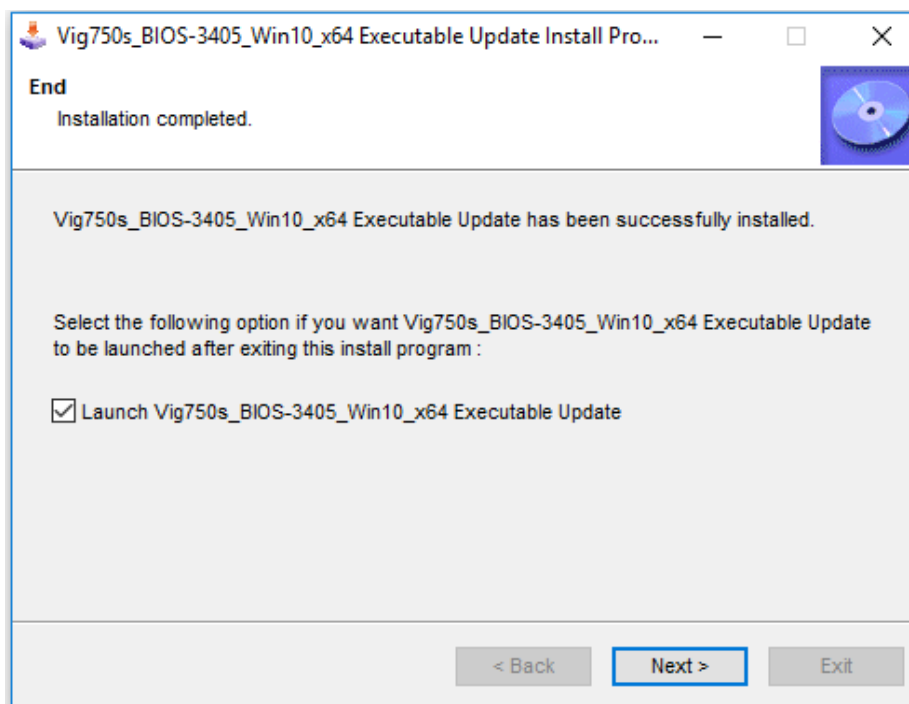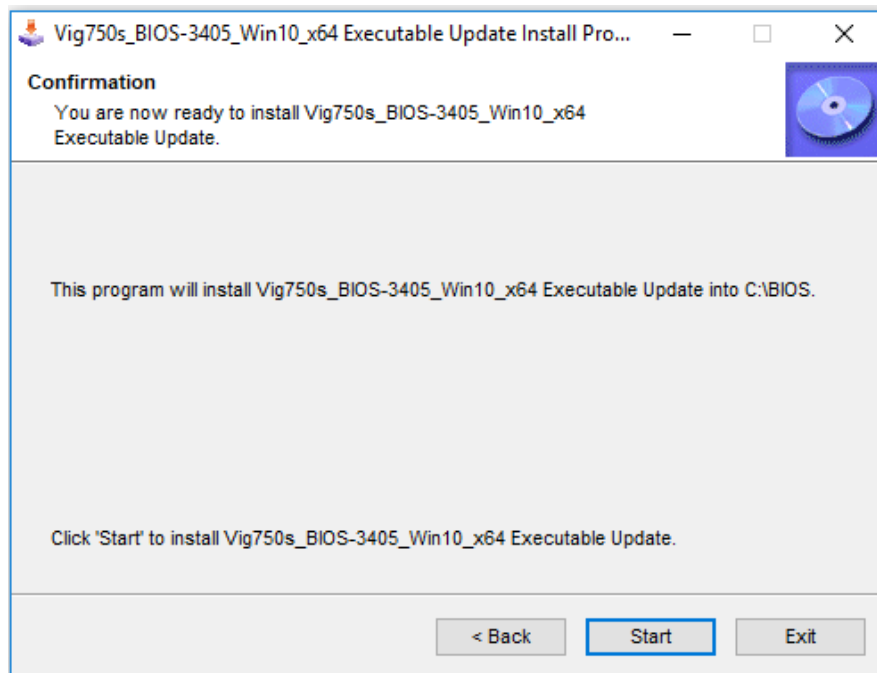Vig750s_BIOS-3405_Win10_x64 Executable Update Install Pro...   —   □   ✕

Confirmation
   You are now ready to install Vig750s_BIOS-3405_Win10_x64
   Executable Update.

This program will install Vig750s_BIOS-3405_Win10_x64 Executable Update into C:\BIOS.

Click 'Start' to install Vig750s_BIOS-3405_Win10_x64 Executable Update.

[< Back]   [Start]   [Exit]

Vig750s_BIOS-3405_Win10_x64 Executable Update Install Pro...   —   □   ✕

End
   Installation completed.

Vig750s_BIOS-3405_Win10_x64 Executable Update has been successfully installed.

Select the following option if you want Vig750s_BIOS-3405_Win10_x64 Executable Update to be launched after exiting this install program :

☑ Launch Vig750s_BIOS-3405_Win10_x64 Executable Update

[< Back]   [Next >]   [Exit]

```
C:\Windows\system32\cmd.exe                                          —    □    ×
**********************************************************************************
* PMPAS750 -Vig750S Motherbord
* BIOS 3405
* BIOS Date: 14/07/2017
* BIOS is configured with default BIOS settings for Windows 10

**********************************************************************************

Before updating the BIOS on Viglen Vig750S  (Vig750S) Motherbord, manually record all BIOS settings that have been chang
ed (from default) so they can be restored after completing the BIOS update.

Please DO NOT Update this BIOS on any other motherbords.

DO NOT shutdown or power off the computer at any time during the update process.

Press any key to continue . . .
```

```
C:\Windows\system32\cmd.exe                                          —    □    ×
**********************************************************************************
* PMPAS750 -Vig750S Motherbord
* BIOS 3405
* BIOS Date: 14/07/2017
* BIOS is configured with default BIOS settings for Windows 10

**********************************************************************************

Before updating the BIOS on Viglen Vig750S  (Vig750S) Motherbord, manually record all BIOS settings that have been chang
ed (from default) so they can be restored after completing the BIOS update.

Please DO NOT Update this BIOS on any other motherbords.

DO NOT shutdown or power off the computer at any time during the update process.

Press any key to continue . . .
========    ASUS Flash Utility Ver 1.11 for WinPEX64   ========
2017-10-26 20:07:25
Get Flash Information            : PASS
Get Rom Layout from Rom         : PASS
Get RomLayout from File         : PASS
Check BIOS Image                : PASS
Save DMI Data                   :
```

Additional information:

For BIOS, Drivers and Documentation enquiries please contact XMA Technical Support Department at technical-support@xma.co.uk.

Remember to include your PC serial number in all correspondence.