



BIOS Update Instruction for the Vig104s Motherboard PMPAS104- VIG104S

- 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.

- DOS BIOS Updater
- EZ-Flash 2 Update
- Recovering the BIOS CrashFree BIOS 3 (recover corrupted BIOS)
- Windows\WinPE BIOS Update

Latest BIOS files and Utility are available from Viglen FTP site: <u>http://download.viglen.co.uk/files/Motherboards/Vig104s</u>

BIOS Update Instructions under DOS:

The BIOS Updater allows you to update BIOS in a DOS environment. This utility also allows you to copy the current BIOS file that you can use as a backup when the BIOS fails or gets corrupted during the updating process.

- 1. Save BIOS update zipped file to a temporary directory.
- 2. Extract the necessary files.
- 3. Copy the contents of the file to a bootable USB key or CD-ROM media.
- 4. Boot the target PC with the device connected or inserted.
- 5. Select <F8> during POST to display the Boot Menu and select your bootable device.
- 6. At the DOS prompt Type 'Flash.bat' to launch the BIOS updates process.
- 7. Reboot the system once complete.

8. Enter the BIOS Setup and 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.

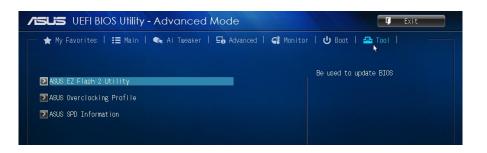




BIOS Update Instructions using EZ-Flash Method:

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 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.



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

¹ Flash		
▶File Path: fs2:\		
Drive fsO:\ (System Reserved)	Folder 01/07/14 10:13a 8390656 0708V.	
fs1:\ fs2:\ (VIG700S) fs3:\ (WEXDCO74		k
≝ File		
≝ File Model:	Version:	Date:
	Version:	Date:





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

Flash		
♦ File Path: fs2:\		
Drive	Folder	
fs1:\ fs2:\ VU57005) fs3:\ (HDVDC074	Do you want to read this:	fi 1e? 10e1
File		
Madel :	Version: 🕨	Date:
D Help	r Load [Tab] Switch [Up/Down/PageUp/PageOo	uun/Jame/End] Mayo [E92] Evit
[Enter] select u	r Luad [Tab] Switch [Up/Duwn/Pageup/PageDu	Wh/Hume/End] Move [ESC] Exit

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

Flash Nodel: H81I-PLUS		
▶File Path: fs2:\		
Drive	Folder	
fol:\ (System Reserved) fol:\ fol:\ fos:\ (NGCOCO74 fs3:\ (NGCOCO74	D1/07/14 10:13a 8390656 0706Y.CAP Update successfully! System will be reset!	
File	OK	
Model: H81I-PLUS	Version: 0708	Date: 12/03/2013
0 Heln		
D Help		

- 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 **N3050M-E.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 2 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.



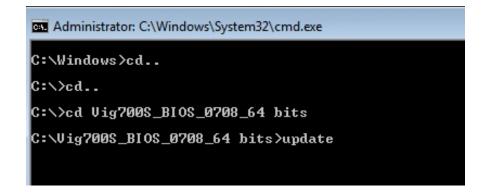




Windows\WinPE BIOS Update

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)



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

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

🖼 Administrator: C:\Windows\System32\cmd.exe - u	pdate	
C:\Windows>cd		
C:\>cd		
C:\>cd Vig700S_BIOS_0708_64 bits		
C:\Vig700S_BIOS_0708_64 bits>update PMPAS700 -Vig700S Motherbord BIOS 0708 (0708 x64) BIOS Date: 12/03/2013 Updating BIOS, please wait	sfsdf	
	[PEInfo.dll] Get PE BIOS Info fail !!	Ŧ
	ОК	



6. BIOS update process will start.

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

Administrator: C:\Windows\System32\cmd.exe	
Microsoft Windows [Version 6.1.7600] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	* =
C:\Windows\system32>cd	
C:\Windows>cd	
C:\>cd Vig700S_BIOS_0708_64	
C:\Vig700S_BIOS_0708_6 PMPAS700 -Vig700S_Moth BIOS 0708 (0708 x64) BIOS Date: 12/03/2013 Updating BIOS, please Press any key to conti C:\Vig700S_BIOS_0708_6 Windows will shut down in less than a minute.	
Close	

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.

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BIOS settings for Windows 7 and Windows 8/8.1 O/S

Windows UEFI mode for Windows 8/8.1& 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]

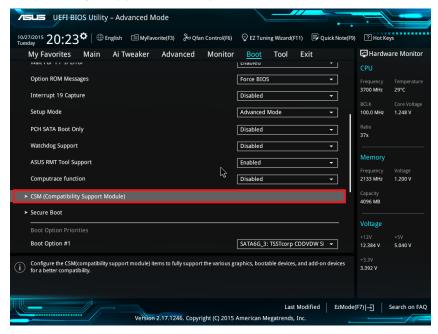
Boot\Secure Boot Menu

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)



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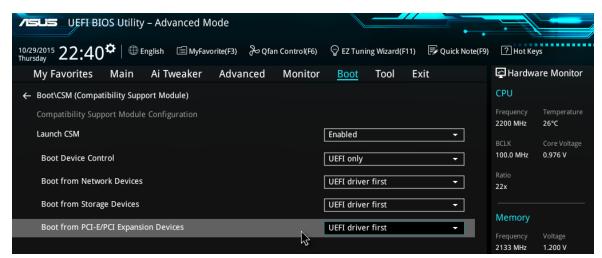
Tel: 01727 201 850 | Fax: 01727 201858 | Email: technical@viglen.co.uk| Web: www.viglen.co.uk





 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]



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.

10/29/2015 22:39 [¢] ⊕ Eng	- Advanced Mode glish 🗉 MyFavorite(F3) 🏷 Qf	an Control(F6) O EZ Tuning Wizard(F	11) 🕞 Quick Note(F9)	? Hot Key	/5
My Favorites Main	Ai Tweaker Advanced	Monitor <u>Boot</u> Tool	Exit	🔄 Hardwa	ire Monitor
← Boot\Secure Boot				CPU	
Secure Boot state Platform Key (PK) state		Enabled Unloaded		Frequency 2200 MHz	Temperature 26°C
ОЅ Туре		Windows UEFI mode	•	BCLK 100.0 MHz	Core Voltage 0.976 V
➤ Key Management				Ratio 22x	
	Secure Bo	oot Menu			



- 7. Select Key Management.
- 8. Select Install default Secure Boot keys and select Yes to proceed.

Action Control		
10/29/2015 22:43 English MyFavorite(F3) & Qfan Control(F6)	♀ EZ Tuning Wizard(F11)	? Hot Keys
My Favorites Main Ai Tweaker Advanced Monitor	Boot Tool Exit	🚰 Hardware Monitor
← Boot\Secure Boot\Key Management		СРИ
► Install Default Secure Boot Keys		Frequency Temperature 2200 MHz 26°C
► Save Secure Boot Keys		BCLK Core Voltage
Secure Boot variable Size Key# Key source		100.0 MHz 0.992 V
≻ PK Management 0 0 *		Ratio
≻ KEK Management 0 0 *		22x
► DB Management 0 0 *		Memory
► DBX Management 0 0 *		Frequency Voltage 2133 MHz 1.200 V
Kou Managama		

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**.





VEFI BIOS Utility – Advanced Mode	
10/29/2015 22:43 C English 🖆 MyFavorite(F3) & Qfan Control(F6) 😳 EZ Tuning Wizard(F11) 🗟 Quick Note(F3)	9) ? Hot Keys
My Favorites Main Ai Tweaker Advanced Monitor <u>Boot</u> Tool Exit	😭 Hardware Monitor
← Boot\Secure Boot\Key Management	CPU
≻ Clear Secure Boot Keys	Frequency Temperature 2200 MHz 26°C
➤ Save Secure Boot Keys Secure Boot variable Size Key# Key source	BCLK Core Voltage 100.0 MHz 0.992 V
> PK Management 886 1 Default	Ratio 22x
 ≻ KEK Management 3573 3 Default > DB Management 6274 9 Default 	Memory
≻ DBX Management 76 1 Default	Frequency Voltage 2133 MHz 1.200 V
	Capacity 16384 MB
	Voltage
	+12V +5V 12.288 V 5.080 V
(i) Save all the secure boot keys to an USB storage device.	+3.3V 3.392 V
Last Modified EzMode Version 2.17.1246. Copyright (C) 2015 American Megatrends, Inc.	e(F7)
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

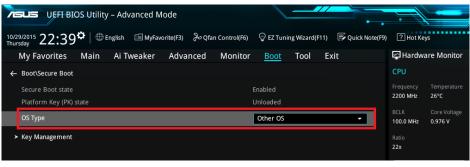
Boot\CSM (Compatibility Support module)

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]

VEFI BIOS Utility – Advanced Mode		
10/29/2015 22:39 C Brglish MyFavorite(F3) & Qfan C	ontrol(F6) 💮 EZ Tuning Wizard(F11)	🕞 Quick Note(F9) 🕜 Hot Keys
My Favorites Main Ai Tweaker Advanced I	۸onitor <u>Boot</u> Tool E	kit 🔄 Hardware Monitor
← Boot\CSM (Compatibility Support Module)		CPU
Compatibility Support Module Configuration		Frequency Temperature 2200 MHz 26°C
Launch CSM	Enabled	BCLK Core Voltage
Boot Device Control	Legacy OPROM only	TIOO.0 MHz 0.992 V
Boot from Network Devices	Legacy only	Ratio 22x
Boot from Storage Devices	Legacy only	•
Boot from PCI-E/PCI Expansion Devices	Legacy only	Frequency Voltage
	s	Frequency Voltage 2133 MHz 1.200 V
		Capacity 16384 MB
		Voltage
		12.288 V 5.080 V
$(\mathbf{i})^{\mathrm{Select}}$ the devices boot-up mode by the devices specification. Devices with	he selected mode will appear in the boo	t priority list. +3.3V 3.392 V
	Last Mod	dified EzMode(F7) → Search on FAQ
Version 2.17.1246. Copyrigh	t (C) 2015 American Megatrends, Inc.	

Windows 7 BIOS settings

Boot\Secure Boot Menu OS Type [Other OS]



Windows 7 BIOS settings





Additional information:

For BIOS, Drivers and Documentation enquiries please contact Viglen Technical Support Department at <u>technical@viglen.co.uk</u>.

Remember to include your PC serial number in all correspondence.