



Windows® 7 Installation and PCIE RAID Setup Guide

Operating System(s) Support:

The Vig770S motherboard is officially approved for Windows 10 for 6th and 7th gen Processors. Windows 7 is supported for 6th gen process only.

Please note, there is no support of windows 7 operating system for 7th Gen Intel(R) Core(TM) processor family (Codename Kaby Lake).

7th Gen Intel(R) Core(TM) processor family (Codename Kaby Lake)

• Microsoft Windows* 10-64

6th Gen Intel(R) Core(TM) processor family (codename Skylake)

- Microsoft Windows* 7-64
- Microsoft Windows* 8.1-64
- Microsoft Windows* 10-64

Microsoft support policies with updated Windows 7 & 8.1 guidelines.

Supported Windows Versions				
Kaby Lake (Intel 7th Generation Core processors)	Windows 10 ONLY			
Skylake (Intel 6th Generation Core processors)	Windows 7, 8.1,10			



Windows[®] 7 and USB driver installation

Based on the chipset specification, the Vig860S motherboard requires USB 3.0 drivers to be preloaded in order to use USB keyboard/mouse during Windows® 7 installation. This section is a guide on preloading USB 3.0 drivers and installing Windows® 7.

Method 1: Using SATA ODD & USB devices

Load the USB driver using the ASUS support DVD and install Windows® 7 using a USB device.

Requirement:

- 1 x EZ_Installer_Windows 7_V1.03.10
- 1 x Windows® 7 installation DVD
- 1 x Working system (PC)
- 1 x SATA ODD
- 1 x USB storage device (8 GB or more)

> The USB storage device requires 8 GB or more capacity. It is recommended to format the Storage device before use.

- If you want to install Windows® 7 64-bit UEFI mode, use both a USB ODD and a SATA ODD.
- 1. Insert the Windows® 7 installation DVD into a USB ODD, or copy all files on the Windows® 7 installation DVD to a USB storage device on a working system.
- 2. Connect the USB ODD or USB storage device to your system.
- 3. Insert the ASUS support DVD into a SATA ODD on your system.
- 4. Power on your system and press F8 during POST (Power-On Self-Test) to enter the boot screen.
- 5. Select the USB ODD or USB storage device as the boot device.





Please select boot device:			
 \uparrow and \downarrow to move selection			
ENTER to select boot device			
ESC to boot using defaults			
ASUS SDRW-0804P-D			
P4: ASUS DVD-E818A6T (5192M	B)		
P3: Hitachi HDP725050GLA380 (4	76940MB)		
ADATA USB Flash Drive (7536MB)			
UEFI: (FAT) ADATA USB Flash Drive	(7536MB)		
UEFI: ASUS DVD-E818A6T (5192)	ИВ)		
Enter Setup			
	ОК	Cancel	

Figure 1 – Boot Device Menu

6. The USB driver will be loaded automatically during installation start-up.



Figure 2 – Windows start-up screen

The "Setup is starting..." screen will show up if the USB driver is loaded correctly.

7. Follow the onscreen instructions to complete the Windows® 7 installation.



Method 2: Using a modified Windows-7 ISO

Load the USB driver and install Windows® 7 using a modified Windows® 7 installation DVD.

Requirement:

- 1 x EZ_Installer_Windows 7_V1.03.10
- 1 x Windows® 7 installation source
- 1 x Working system (PC)
- 1 x SATA ODD
- 1. On your working system, create an ISO image file of the Windows® 7 installation source using a third-party ISO software.
- 2. Copy both "Auto_Unattend.xml" and "Auto_Unattend" folder from the root directory of the Driver DVD to your system.
- 3. Edit the ISO file and add both "Auto_Unattend.xml" and "Auto_Unattend" folder into the ISO file.
- 4. Burn this ISO file onto an empty DVD to create a modified Windows® 7 installation DVD.
- 5. Insert the modified Windows® 7 installation DVD into an ODD on your system.
- 6. Power on your system and press F8 during POST (Power-On Self-Test) to enter the boot screen.
- 7. Select the ODD as the boot device.
- 8. The USB driver will be loaded automatically during installation start-up.

The "Setup is starting..." screen will show up if the USB driver is loaded correctly





Method 3: Using ASUS EZ Installer

Use the ASUS EZ Installer Utility to create a modified Windows® 7 installation source.

Requirement:

- 1 x EZ_Installer_Windows 7_V1.03.10
- 1 x Windows® 7 installation DVD
- 1 x Working system (PC)
- 1 x SATA ODD
- 1 x USB storage device (8 GB or more)
- 1. Insert the Windows® 7 installation DVD.
- Launch the ASUS EZ Installer located under Drivers\Windows 7 Installation Guide folder on Driver DVD and FTP link for the drivers.
- 3. Select a method of creating a modified Windows® 7 installation file:

Windows[®] 7 OS disk to USB storage device

a) Select Windows 7 OS disk to USB storage device then click Next.



Figure 3

b) Check I agree and then click Next



Figure 4



c) Select the source of the Windows® 7 installation disk then click Next.

ASUS EZ Installer V1.03.06	x	
	Please select the source of your Windows(R) 7 installation disc.	
	Step 1 of 3 Select your disc source	
	D:\(GRMCULXFRER_EN_DVD)	
	Capacity:3181 MB	
	Back Next	



d) Select the USB storage device and click next. Next.

ASUS EZ Installer V1.03.06	×
	Insert a USB storage device with 8 GB or more capacity. This USB storage device will be formatted.
	Step 2 of 3 Insert a USB storage device Click Refresh if your USB device is not displayed.
	H:\ (Capacity: 3845 MB) ✓
	NVMe hotfix is required to install Windows 7 on NVMe SSDs. Back Next

Figure 6

- e) Click the refresh icon if the USB storage device is not displayed.
- f) Tick Install NVMe hotfix if needed.
- g) Click Yes to clear the contents on the USB storage device and create a bootable USB device.

Make sure to backup contents on the USB storage device, as it will be formatted.

- h) Once completed, click OK to finish.
- i) Burn this ISO file onto an empty DVD to create a modified Windows® 7 installation DVD.





Information:

Before using this method to install Windows® 7:

• If you are using only one SATA HDD, ensure that your SATA HDD has more than twice the storage space (ISO file size +500MB).

• If you are using two or more SATA HDDs, ensure that at least two of your SATA HDDs have more than the storage space (ISO file size +500MB).

j) Select Windows 7 OS disk to ISO file then click Next.



Figure 7

k) Check I agree and then click Next.



i) Select the source of the Windows® 7 installation disk then click Next.



ASUS EZ Installer V1.03.06	
	Please select the source of your Windows(R) 7 installation disc.
	Step 1 of 3 Select your disc source
	Please select
	D:\(GRMCULXFRER_EN_DVD) ~
6	Capacity:3181 MB
	Back Next



I) Select the folder to save the modified Windows® 7 installation ISO file and click Next.

Tick Install NVMe hotfix if needed.

- m) Once completed, click OK to finish.
- n) Burn this ISO file onto an empty DVD to create a modified Windows® 7 installation DVD.
- 4. Insert the modified Windows® 7 installation DVD into an ODD or connect the USB storage device with modified Windows® 7 installation files onto your system.
- 5. Power on your system and press F8 during POST (Power-On Self-Test) to enter the boot screen.
- 6. Select the ODD or USB storage device as the boot device.
- 7. The USB driver and NVMe driver will be loaded automatically during installation start-up.

The "Setup is starting..." screen will show up if the USB driver and NVMe driver are loaded correctly.

8. Follow the onscreen instructions to complete the Windows® 7 installation.



Windows_®7 PCIE RAID Setup

Based on the chipset specification, your system requires USB and RAID drivers to be preloaded in order to use PCIE RAID during Windows® 7 64-bit UEFI installation. This section is a guide on preloading USB and RAID drivers and installing Windows® 7.

Ensure that your motherboard supports PCIE RAID setup before doing so.

Requirements:

- 1 x Bootable USB storage device created in the above section **Using ASUS EZ Installer**
- 1 x Modified Windows® 7 installation DVD created in the above section Using ASUS EZ Installer
- 1 x SATA ODD
- 2 x PCIE SSD
 - 1. Insert the modified Windows® 7 installation DVD into an ODD or connect the USB storage device with modified Windows® 7 installation files onto your Vig750S/Vig760S/Vig830S series platform.
 - 2. Power on your system and press F2 during POST (Power-On Self Test) to enter the boot screen.
 - 3. Go to Advanced > PCH Storage Configuration > SATA Mode Selection and select RAID.



Figure 10





Advanced Mode UEFI BIOS Utility - Advanced Mode O4/29/2101 15:06 [♥] ⊕ English	Q fan Control(F6) ♀ EZ Tuning Wizard(F11) ≠ 🕫 Q	uick Note(F9) ? Hot Keys
My Favorites Main Ai Tweaker Advance	d Monitor Boot Tool Exit	Hardware Monitor
← Advanced\PCH Storage Configuration		CPU
PCH Storage Configuration		Frequency Temperature
Hyper kit Mode	Disabled	S200 MHz 38-C
SATA Controller(s)	Enabled	→ 100.0 MHz 1.072 V
SATA Mode Selection	АНСІ	Ratio
Aggressive LPM Support	AHCI	
SMART Self Test	On Off	Memory
SATA6G_1(Gray)	Empty	Frequency Voltage 2133 MHz 1,200 V
➤ SATA6G_1(Gray)		Capacity
SATA6G_1(Gray)	Enabled	• 8192 MB
SATA6G_1 Hot Plug	Disabled	✓ Voltage
SATA6G_2(Gray)	Empty	
SATAGE DIGENA		12.096 V 5.080 V
() Determines how SATA controller(s) operate.		+3.3V 3.408 V
to the first of the second		
	Last Modified	EzMode(F7)
Version 2.17.1246. C	opyright (C) 2016 American Megatrends, Inc. 👔	11 x - all
	Figure 11	

4. Two new PCIE RAID options appear. Select **RST Controlled** in both options.

Monday My Favorites Main Ai Tweaker Advanced Monitor Boot	outing wizard(F11) Conduct Note(F9) Chot Keys
Advanced\PCH Storage Configuration PCH Storage Configuration Hyper kit Mode SATA Controller(s) Enabled SATA Mode Selection Intel RS M.2_1 PCIE Storage RAID Support RST Con	td CPU Frequency Temperature 3000 MHz 31°C BCLK Core Voltage 100.0 MHz 0.992 V Ratio 30x Introlled
M.2_2 PCIE Storage RAID Support RST Con Aggressive LPM Support RST Con Not RST SMART Self Test On SATAGG_1(Gray) Empty	ntrolled Memory Frequency Voltage 2133 MHz 1.200 V Capacity 4096 MB
> SATA6G_1(Gray) SATA6G_1(Gray) Enabled	d Voltage +12V +5V 12.096 V 5.120 V +2 3V
Enable/Disable RST Pcie Storage Remapping	3280 V

Figure 12





ogyoszolis 19:33 [¢] ⊕English	♀ EZ Tuning Wizard(F11)	
My Favorites Main Ai Tweaker Advanced Monito	Boot Tool Exit 🔤 Hardware Mo	nitor
← Advanced\PCH Storage Configuration	CPU	
PCH Storage Configuration	Frequency Tempo	
Hyper kit Mode	Disabled -	
SATA Controller(s)	Enabled - 100.0 MHz 0.992	oltage V
SATA Mode Selection	Intel RST Premium With Intel O ₁ → Ratio 30x	
M.2_1 PCIE Storage RAID Support	RST Controlled	
M.2_2 PCIE Storage RAID Support	RST Controlled Memory	
Aggressive LPM Support	RST Controlled 2133 MHz 1.200	e V
SMART Self Test	On Off Capacity 4096 MB	
SATA6G_1(Gray)	Empty	
> SATA6G_1(Gray)	Voltage	
SATA6G_1(Gray)	Enabled +12V +5V 12.096 V 5.120	v
Enable/Disable RST Pcie Storage Remapping	+3.3V 3.280 V	
Version 2.17, 1246. Copyright (C) 201	Last Modified EzMode(F7) - Search	on FAQ
Figure	13	

5. Go to Boot > CSM (Compatibility Support Module) > Boot from Storage Device and select UEFI driver first.

My Favorites Main Ai Tweaker	Advanced	Monitor	Boot	1001	Exit	1 ^{.0} 1	Hardwa	are Monito
Boot Configuration							CPU	
Fast Boot			Enabled			-	Frequency 3000 MHz	Temperatu 34°C
Next Boot after AC Power Loss			Normal Boo	ot		<u>-</u>		
Boot Configuration						_	100.0 MHz	0.992 V
boot comparation						_	Ratio	
CSM (Compatibility Support Module)							30x	
Secure Boot							Memory	
Boot Option Priorities								Voltage
Boot Option #1		2	Windows Bo	ot Manag	er (Samsur	-	2133 MHz	1.200 V
Root Option #2			Windows Po	ot Manag	ar (Maryoli	_	Capacity	
Boot option #2				or manage	er (ividi veli		4096 MB	
Boot Option #3			UEFI: A-DAT	A USB Fla	sh Drive 0	-	Voltage	
Boot Override								
LIFET: 4-DATA LISB Flash Drive 0.00 (3853MR)							12.096 V	5.120 V
Configure the CSM(compatibility support module)	items to fully suppo	rt the various g	aphics, bootab	le devices,	and add-on (devices		
for a better compatibility.							3.280 V	
ior o better competitionity.								







PISLES UEFI BIOS Utility - Advanced Mode 090822016 19:35 [¢] ⊕ English @ MyFavorite(F3) & Qfan Control(F6) ♀ EZ Tuning Wizard(F11) ↓ E Quick Note(F9)) P Hot Keys
My Favorites Main Ai Tweaker Advanced Monitor Boot Tool Exit	Hardware Monitor
← Boot\CSM (Compatibility Support Module)	СРИ
Compatibility Support Module Configuration	Frequency Temperature 3000 MHz 34°C
Launch CSM Enabled	BCLK Core Voltage
Boot Device Control UEFI and Legacy OPROM -	100.0 MHz 0.992 V
Boot from Network Devices Legacy only -	Ratio 30x
Boot from Storage Devices UEFI driver first	
Boot from PCI-E/PCI Expansion Devices	Memory
UEFI driver first	Frequency Voltage 2133 MHz 1.200 V
	Capacity 4096 MB
	Voltage
	+12V +5V 12.096 V 5.120 V
Storage devices will run the selected type first during the system boot. It is recommended to select either Legacy only or UEFI drivers first by the devices specification for a better stability. [Ignore]: Accelerate the boot up time without running storage devices during POST(power-on self-test).	+3.3V 3.280 V
Last Modified EzMode Version 2.17.1246. Copyright (C) 2016 American Megatrends, Inc. Y	(F7)

Figure 15

6. Press <F10> to save the changes and reboot the system.





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VISUS UEFI BIOS Utility – Advanced Mode	
0427/2101 12:18 C Benglish MyFavorite(F3) & Qfan Control(F6) Q EZ Tuning Wizard(F1))	F9) ? Hot Keys
My Favorites Main Ai Tweaker <u>Advanced</u> Monitor Boot Tool Exit	Hardware Monitor
Platform Misc Configuration	СРИ
➤ CPU Configuration	Frequency Temperature 3200 MHz 36°C
➤ System Agent (SA) Configuration	BCLK Core Voltage
> PCH Configuration	100.0 MHz 1.072 V
PCH Storage Configuration	Ratio 32x
> PCH-FW Configuration	
Onboard Devices Configuration	Memory
► APM Configuration	Frequency Voltage 2133 MHz 1.200 V
Network Stack Configuration	
► HDD/SSD SMART Information	8192 MB
➤ USB Configuration	Voltage
Intel(R) Rapid Storage Technology	+12V +5V
This formset allows the user to manage RAID volumes on the Intel(R) RAID Controller	+3.3V 3.408 V
Martin Star Martin Contraction Contraction	
Last Modified EzMoo	le(F7)
relation zinni zato. Copyright (c) zo to American meganenus, inc.	11 1 1 1 1

Figure 17

8. Click Create RAID Volume.







9. Setup the RAID information and click **Create Volume**.

レモレビン UEFI BIOS Utility – Advanced Mode 09/09/2016 00・56な 単 English 国 Myfavorite(F3) 多Qfan Control(F6) のEZ Tuning Wizard(F11) 原Quick Note(P	9) ? Hot Keys
My Favorites Main Ai Tweaker <u>Advanced</u> Monitor Boot Tool Exit	Hardware Monitor
Name: Volume1	Frequency Temperature 2700 MHz 30°C
RAID Level: RAID0(Stripe) -	BCLK Core Voltage 100.0 MHz 0.912 V
Select Disks: PCIe 1.0, Marvell M.2 256GB X256ZA1E400648, 238.4GB X -	Ratio 27x
PCIe 2.0, Samsung SSD 950 PRO 512GB S2GMNCAGB03518E, 476.9GB	Memory Frequency Voltage
Strip Size:	2133 MHz 1.200 V Capacity
Capacity (MB): 488392	Voltage
> Create Volume	+12)/ +5)/
	12.384 V 5.080 V
() Create a volume with the settings specified above	3.392 V
Last Modified EzMod Version 2.17.1246. Copyright (C) 2016 American Megatrends, Inc.	e(F7)

Figure 19

10. When completed, select the ODD or USB storage device as the boot device.

11. The USB driver will be loaded automatically during installation start-up.

The "Setup is starting..." screen appears when the USB driver is loaded successfully.





- 12. Follow the onscreen instructions to complete the initial configurations of Windows® 7 installation.
- 13. Click Load Driver.

THUTTLE	Total Size Free Space Type
Refresh	Drive options (advanced)
Refresh Load Driver	Drive options (advanced)

Figure 20

14. Select KabyLake_RAID and then click OK.

	Browse for Folder	XI
	Browse to the driver(s), and then dick OK	
	Removable Disk (C:) GRMCULXFR~1 (D:) AutoUnattend E3_RAID E3_RAID E3_RAID E4 KabyLake_RAID E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Support E5 Suppor	×
☑ Hide drivers that		



15. When the following screen appears, click **Next** to install RAID driver.



Figure 22

16. Follow the onscreen instructions to complete the Windows® 7 installation.