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BIOS information

2.1 Managing and updating your BIOS



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. Copy the original motherboard BIOS using the ASUS Update utility.

2.1.1 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.



Service Provider).

2.1.2 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.

To update the BIOS using EZ Flash 2:

- 1. Insert the USB flash disk that contains the latest BIOS file to the USB port.
- 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 the Left/Right arrow keys to switch to the Drive field.
- Press the Up/Down arrow keys to find the USB flash disk that contains the latest BIOS, and then press <Enter>.
- 5. Press the Left/Right arrow keys to switch to the Folder Info field.
- 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 formatted using FAT32/16 on a single partition only.
- DO NOT shut down or reset the system while updating the BIOS to prevent system boot failure!

2.1.3 ASUS CrashFree BIOS 3 utility

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 into H97ME.CAP.

 The BIOS file in the support DVD may not be the latest version. Download the latest BIOS file from the ASUS website at <u>www.asus.com</u>.

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 2 utility automatically.
- 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 boot failure!

2.1.4 ASUS BIOS Updater

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

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1	/				

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 <u>http://support.asus.com</u> 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: 1 and 1 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

 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).



Updating the BIOS file

To update the BIOS file:

1. On the FreeDOS prompt, type bupdater /pc /g and press <Enter>.

D:/> bupdater /pc /g

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

	ASUST BOARD : DUFF VER: 0010 (H DATE : 03/12/	EK BIOS Update	r for DOS	V1.30 [2014/ BOARD: Dhe VER: Dibos DATE: Dhen	'01/01] ite ROM icur n m	
Drives panel 🗖	PATH: C:\ C: D:	FORMAN-A H97ME.CAP	<dir> 8390626</dir>	2014-02-10	21:14:34	— Files panel
	Note [Ent. [Up/]	er] Select or Lo Down/Home/End] M	oad [Tab] Iove [Esc]	Switch [V] Exit	Drive Info	

- 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>.
- 4. After the BIOS Updater checks the selected BIOS file, select **Yes** to confirm the BIOS update.





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

- 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.



Ensure to load the BIOS default settings to ensure system compatibility and stability. Select the **Load Optimized Defaults** item under the **Exit** BIOS menu. See Chapter 2 of your motherboard user guide for details.

2.2 BIOS setup program

Use the BIOS Setup program to update the BIOS or configure its parameters. The BIOS screens include navigation keys and brief online help to guide you in using the BIOS Setup program.

Entering BIOS Setup at startup

To enter BIOS Setup at startup:

Press <Delete> or <F2> during the Power-On Self Test (POST). If you do not press
 <Delete> or <F2>, POST continues with its routines.

Entering BIOS Setup after POST

To enter BIOS Setup after POST:

- Press <Ctrl>+<Alt>+ simultaneously.
- · Press the reset button on the system chassis.
- Press the power button to turn the system off then back on. Do this option only if you
 failed to enter BIOS Setup using the first two options.



Using the power button, reset button, or the <Ctrl>+<Alt>+ keys to force reset from a running operating system can cause damage to your data or system. We recommend you always shut down the system properly from the operating system.



- The BIOS setup screens shown in this section are for reference purposes only, and may not exactly match what you see on your screen.
- Visit the ASUS website at <u>www.asus.com</u> to download the latest BIOS file for this motherboard.
- Ensure that a USB mouse is connected to your motherboard if you want to use the mouse to control the BIOS setup program.
- If the system becomes unstable after changing any BIOS setting, load the default settings to ensure system compatibility and stability. Select the Load Optimized Defaults item under the Exit menu or press hotkey F5.
- If the system fails to boot after changing any BIOS setting, try to clear the CMOS and reset the motherboard to the default value. See section 1.6 Jumpers for information on how to erase the RTC RAM.

BIOS menu screen

The BIOS setup program can be used under two modes: **EZ Mode** and **Advanced Mode**. Press F7 to change between the two modes.

E Z Mode

By default, the EZ Mode screen appears when you enter the BIOS setup program. The EZ Mode provides you an overview of the basic system information, and allows you to select the display language, system performance mode and boot device priority. To access the Advanced Mode, press F7.



- The boot device options vary depending on the devices you installed to the system.
- The Boot Menu (F8) button is available only when the boot device is installed to the system.

Advanced Mode

The Advanced Mode provides advanced options for experienced end-users to configure the BIOS settings. The figure below shows an example of the Advanced Mode. Refer to the following sections for the detailed configurations.



To access the EZ Mode, press F7.



Menu bar

The menu bar on top of the screen has the following main items:

My Favorites	For saving the frequently-used system settings and configuration
Main	For changing the basic system configuration
Ai Tweaker	For changing the overclocking settings
Advanced	For changing the advanced system settings
Monitor	For displaying the system temperature, power status, and changing the fan settings
Boot	For changing the system boot configuration
Tool	For configuring options for special functions
Exit	For selecting the exit options and loading default settings

Menu items

The highlighted item on the menu bar displays the specific items for that menu. For example, selecting **Main** shows the Main menu items.

The other items (Ai Tweaker, Advanced, Monitor, Boot, Tool, and Exit) on the menu bar have their respective menu items.

Back button

This button appears when entering a submenu. Press <Esc> or use the USB mouse to click this button to return to the previous menu screen.

Submenu items

A greater than sign (>) before each item on any menu screen means that the item has a submenu. To display the submenu, select the item and press <Enter>.

Drop-down list

Select a menu item and press <Enter> to display a drop-down list with the configuration options for that item.

Scroll bar

A scroll bar appears on the right side of a menu screen when there are items that do not fit on the screen. Press the Up/Down arrow keys or <Page Up> / <Page Down> keys to display the other items on the screen.

Navigation keys

At the bottom right corner of the menu screen are the navigation keys for the BIOS setup program. Use the navigation keys to select items in the menu and change the settings.



For the navigation key, it's only available in English. If you delete the default shortcuts, they will appear on your next system bootup.

General help

At the lower left corner of the menu screen is a brief description of the selected item.

Configuration fields

These fields show the values for the menu items. If an item is user-configurable, you can change the value of the field opposite the item. You cannot select an item that is not user-configurable.

A configurable field is highlighted when selected. To change the value of a field, select it and press <Enter> to display a list of options.

Last Modified button

This button shows the items that you last modified and save in BIOS Setup.

Hardware Monitor

At the right side of the menu screen is a brief description of system hardware monitor information.

2.3 My Favorites

MyFavorites is your personal space where you can easily save and access your favorite BIOS items.



Adding items to My Favorites

To add frequently-used BIOS items to My Favorites:

- 1. Press <F3> on your keyboard.
- 2. Use the arrow keys to select an item that you want to add. When using a mouse, select the item and double-click on the left button to add it to MyFavorite list.

S

You cannot add the following items to My Favorites:

- Items with submenu options
- User-configurable items such as language and boot device order
- Configuration items such as Memory SPD Information, system time and date

2.4 Main menu

The Main menu screen appears when you enter the Advanced Mode of the BIOS Setup program. The Main menu provides you an overview of the basic system information, and allows you to set the system date, time, language, and security settings.





- If you have forgotten your BIOS password, erase the CMOS Real Time Clock (RTC) RAM to clear the BIOS password. See section 1.6 Jumpers for information on how to erase the RTC RAM.
- The Administrator or User Password items on top of the screen show the default Not Installed. After you set a password, these items show Installed.

2.5 Ai Tweaker menu

The Ai Tweaker menu items allow you to configure overclocking-related items.



Be cautious when changing the settings of the Ai Tweaker menu items. Incorrect field values can cause the system to malfunction.



The configuration options for this section vary depending on the CPU and DIMM model you installed on the motherboard.

Tubbicovit 15:43° Integration English Control Second convection Of 21 many Maxaed 111 Second convection Of 21 many Maxaed 111 Second convection Table convection	VIEW UEFI BIOS Utility - Advanced M	lode	_			1
My Favorites Main Al Tweaker Advanced Monitor Boot Tool Exit CPU Taget DW Tweekerong: 1330Msr CPU CPU CPU CPU CPU CPU Taget CMP (Frequency: 1300Msr CPU CPU CPU CPU CPU Taget CMP (Frequency: 1300Msr CPU CPU CPU CPU CPU Core Bale Auto CPU CPU Min. CPU Core Bale Auto CPU CPU CPU Core Bale Auto CPU DBM Frequency Auto CPU DBM Frequency Auto CPU CPU Core Bale Kalo CPU CPU Core Bale Frequency CPU CPU Core Bale Frequency C	03/25/2014 15:43 [©] English MyFav	orite(F3) 🔏 Qfan Conti	ol(F6) 💮 EZ Tuning	Wizard(F11) 🕞 Quick	Note(F9) 2 Hol	-22
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Target 100/F02 frequency 100/Hz HCL M View MCL M View 03/17 Target 100/F02 frequency 100/Hz MCL M View 03/17 03/17 CPU Car Raio Auto Solo 100/17 00/17 Min CPU Cache Ratio Auto Manore 100/17 100/17 Min CPU Cache Ratio Auto 100/17 100/17 100/17 Min CPU Cache Ratio Auto 100/17 100/17 100/17 CPU Ratio Turer Auto 100/17 100/17 100/17 100/17 DRAM Frequency DBMM Frequency Ratio Auto 100/17 100/17 100/17 DRAM Frequency DBMM Frequency Ratio Auto 100/17 100/17 100/17 GPU Boot Auto 100/17 100/17 100/17 100/17 GPU Boot Maco 100/17 100/17 100/17 100/17 GPU Boot Maco 100/17 100/17 100/17 100/17 100/17 GPU Boot Maco 100/17 100/17 100/17 100/17 <td>Target Cache Frequency: 3600MHz</td> <td></td> <td></td> <td></td> <td>3200 MHz</td> <td></td>	Target Cache Frequency: 3600MHz				3200 MHz	
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CPU Care Ratio Auto Total Min. CPU Carbe Ratio Auto Max. CPU Carbe Ratio Auto Max. CPU Carbe Ratio Auto Max. CPU Carbe Ratio Max. CPU Carbe Ratio GVU Rate Turner Auto Impairing Participants 1500 Y GVU Rate Ratio Auto Impairing Participants 1500 Y DAM Frequency : DBAM Frequency Ratio Auto Impairing Participants DAM Frequency : DBAM Frequency Ratio Auto Impairing Participants GVU Boost Keep Carrent Setting Impairing Participants () Configure the maintum possible CPU carbo ratio. Impairing Participants	Target CPU Graphics Frequency: 1150MHz				100.0 MH2	0.937 V
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3.376 V	Configure the minimum possible CPU cache ratio.				+3.3V	
	0.				3.376 V	

Scroll down to display the following items:

ASUS UEFI BIOS Utility - Advanced Mode	
03/25/2014 15:43 CE English @MyFavorite(F3) & Qfan Control(F6) Q EZ Tuning Witzerd(F1) FQuit	k Note(F9) 2 Hot Keys
My Favorites Main <u>Ai Tweaker</u> Advanced Monitor Boot Tool Exit	Hardware Monitor
	CPU
EPU Power Saving Mode Disabled	Frequency Temperature
> DRAM Timing Control	3200 MHz 41°C
> DIGI+ VRM	
Internal CPU Power Management	Ratio
	32×
Extreme Over-voltage Disabled	· · · · · · · · · · · · · · · · · · ·
CPU Core Voltage 0.937V Auto	Memory
CPU Casha Valiana	Frequency Voltage
CPO Cache voltage	1333 MHz 1.500 V
CPU Graphics Voltage Auto	 Capacity
CPU System Agent Voltage Offset Mode Sign +	2048 MB
CPU System Agent Voltage Offset	Voltage
	+12V +5V
CPU Analog I/O Voltage Offset Mode Sign +	12.288 V 5.040 V
(i) Offset the analog 10 voltage by a possible value. $\{ j \}$ Offset the analog 10 voltage by a negative value.	+3.3V 3.376 V
	Last Modified EtMode(E7)
Version 2.16.1240. Copyright (C) 2014 American Megatrends, Inc.	continuent in concordi ()] []

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My Favorites Main Ai Tweaker	Advanced	Monitor	Boot Tool Exit	Haro	ware Monitor
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CPU Analog I/O Voltage Offset Mode Sign				- Frequence	
				3200 MH	41°C
CPU Analog I/O voltage Uffset				DCLK	
CPU Digital I/O Voltage Offset Mode Sign			+	- 100.0 MH	
CPU Diaital I/O Voltage Officet			Auto		
			AULU		
SVID Support			Auto	•	
CPU Input Voltage(VCCIN)				Memor	
		-			
DRAM Voltage		1.500V		1333 MH	
PCH VLX Voltage		1.500V		Capacity	
201 Con 11 from				2048 MB	
PCH Core voitage		1.050V	Auto		
DRAM CTRL REF Voltage				Voltage	
DRAM DATA REE Voltage on CHA	_	_	Auto	+12V	
ore an oriented to tage on case			70.0	12.288 V	5.040 V
Configure the DRAM reference voltage on the data li	nes of channel A. T	he reference vo	Itage will be the DRAM voltage times th	+3.3V	
 configured value. It is recommended to configure th 	e value close to the	standard valu		3.3764	
Min.: 0.39500x Max.: 0.63000x Standard: 0.50	000x Incremen	t: 0.00500×			
				Last Modified	F2Mode(F71
Version	2.16.1240, Copyr	ight (C) 2014.	American Megatrends, Inc.		L 10.9



2.6 Advanced menu

The Advanced menu items allow you to change the settings for the CPU and other system devices.



Be cautious when changing the settings of the Advanced menu items. Incorrect field values can cause the system to malfunction.

VEFI BIOS Utility – Advanced Mode	
03/25/2014 15:44 🌣 🌐 English 🖆 MyFavorite(F3) & Qfan Control(F6) 🖓 EZ Tuning Wizard(F11) 🕞 Quick Note(E9)	2 Hot Koys
My Favorites Main Ai Tweaker <u>Advanced</u> Monitor Boot Tool Exit	Hardware Monitor
➤ CPU Configuration	СРО
PCH Configuration	Frequency Temperature 3200 MHz 41°C
PCH Storage Configuration	
➤ System Agent Configuration	100.0 MHz 0.937 V
► USB Configuration	Ratio
► Platform Misc Configuration	
Onhoard Devices Configuration	Memory
· onourd bevice comparation	
► APM	1333 MHz 1.500 V
Network Stack Configuration	
	2048 MB
	Voltage
	12.288 V 5.040 V
C CPU Conferencian	
Last Mo	dified EzMode(F7) →
Version 2.16.1240. Copyright (C) 2014 American Megatrends, Inc.	

2.7 Monitor menu

The Monitor menu displays the system temperature/power status, and allows you to change the fan settings.

VEFI BIOS Utility – Advanced Mode		1
03/25/2014 15:44 🗘 🌐 English 🖆 MyFavorite(F3) 🕹 Qfan Control(F6) 💡	EZ Tuning Wizard(F11) 🕞 Quick Note(F9)	? Hot Keys
My Favorites Main Ai Tweaker Advanced <u>Monitor</u> B	Boot Tool Exit	Hardware Monitor
≻ Qfan Tuning	Cr	νU
CPU Temperature +41	1°C / +105°F 32	equency Temperature 00 MHz 41°C
MB Temperature +34	4°C / +93°F BC	
CPU Fan Speed 21	10 70 RPM	0.0 MHz 0.937 V
Chassis Fan 1 Speed N/	Ra 32	
Chassis Fan 2 Speed N/		
		emory
CPU Input Voltage(VCCIN) +1.	.744 V Fro	equency Voltage
CPU Core Voltage +0.	.937 V	33 MHz 1.500 V
	Ca	pacity
3.3V Voltage +3.	376 V 20	48 MB
5V Voltage +5.	.040 V	ltago
12V Voltana	2.298.1/	ntage
121 Voltage +12	1.200 V +1	2V +5V 288.V 5.040.V
Click to automatically detect the lowest speed and configure the minimum duty circle for each	th fan. 33	3V 176 V

Scroll down to display the following items:

VEFI BIOS Utility - Advanced Mode	-				
03/25/2014 15:45 🗘 🖶 English 📾 MyFavorite(F3) & Qfan Control(F6) 🖓 EZ Tuning Wizard(F11) 🗟	Quick Note(F9) ? Hot Keys				
My Favorites Main Ai Tweaker Advanced Monitor Boot Tool Exit	Hardware Monitor				
CPU Q-Fan Control Enabled	- CPU				
CPU Fan Speed Lower Limit 200 RPM	Frequency Temperature 3200 MHz 41*C				
CPU Fan Profile Standard	BCLK Vcore				
Chassis Fan 1 Q-Fan Control DC Mode	Ratio				
Chassis Fan 1 Q-Fan Source	→ ^{32x}				
Chassis Fan 1 Speed Low Limit 600 RPM	- Memory				
Chassis Fan 1 Profile Standard	Frequency Voltage 1333 MHz 1.500 V				
Chassis Fan 2 Q-Fan Control DC Mode	Capacity 2048 MB				
Chassis Fan 2 Q-Fan Source CPU	-				
Chassis Fan 2 Speed Low Limit 600 RPM	▼ Voltage				
Chassis Fan 2 Profile Standard	+12V +5V 12.288 V 5.040 V				
Select the appropriate performance level of the chassis fan 2.	*3.3V 3.376 v				
	Last Modified EzMode(F7)				
Version 2.16.1240. Copyright (C) 2014 American Megatrends, Inc.					

Scroll down to display the following items:



2.8 Boot menu

The Boot menu items allow you to change the system boot options.

VELIS UEFI BIOS Utility – Advanced Mo	de				1
03/25/2014 15:45 [♥] ⊕ English	ite(F3) 🕹 Qfan Control(F6)	😨 EZ Tuning Wizard(F11)	Quick Note(F9)	7 Hot Key	
My Favorites Main Ai Tweaker	Advanced Monitor	Boot Tool Exit	Ę	Hardwa	re Monitor
Fast Boot		Enabled	- C	PU	
SATA Support		All Devices	▼ 3ú	equency 00 MHz	Temperature 41°C
USB Support		Partial Initialization	- BK	LK	Vcore
PS/2 Keyboard and Mouse Support		Auto	· .	U.U MH2	0.937 v
Network Stack Driver Support		Disabled	- 32	x	
Next Boot after AC Power Loss		Normal Boot	- I 📈	lemory	
Boot Logo Display		Auto	• Fr	equency I33 MHz	Voltage 1.500 V
POST Delay Time		3 sec	• 9		
Boot up NumLock State		Enabled	-	48 MB	
Wait For 'F1' If Error		Enabled	- V	oltage	
Option ROM Messages		Enabled	• 13	2V 288 V	+SV 5.040 V
Enabled/Disabled boot with initialization of a minimal options.	set of devices required to launc	h active boot option. Has no effec	t for BBS boot 3.	:3V 376 V	
			Last Modifi	ed Ez	Mode(F7)
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Scroll down to display the following items:

	Interrupt 19 Capture		Disabled -		CPU	
	Above 4G Decoding		Disabled -		Frequency 3200 MHz	Temperature
	Setup Mode		EZ Mode -			
>	CSM (Compatibility Support Module)				100.0 MHz	
,	Secure Boot				Ratio 32x	
	Boot Option Priorities				Mamony	
	Boot Option #1		HP UFD v120w (1935MB) -			
	Boot Option #2		UEFI: (FAT) HP UFD v120w (1935 👻		1333 MHz	1.500 V
	Hard Drive BBS Priorities				Capacity 2048 MB	
	UEFI: (FAT) HP UFD v120w (1935MB)				voitage	
	HP UFD v120w (1935MB)				12.288 V	5.040 V
i					+3.3V 3.376 V	
		ersion 2.16.1240. Copyright (C) 2014	American Megatrends, Inc.	Last Mo	dified E	:Mode(F7)) – J

2.9 Tools menu

The Tools menu items allow you to configure options for special functions. Select an item then press <Enter> to display the submenu.



2.10 Exit menu

The Exit menu items allow you to load the optimal default values for the BIOS items, and save or discard your changes to the BIOS items. You can access the EZ Mode from the Exit menu.

A UEFI BIOS Utility - Advanced Mode	
03/25/2014 15:46 🌣 🕀 English 📾 MyFavorite(F3) 🗞 Qfan Control(F6) 🖓 EZ Tuning Wizard(F11) 🗟 Quick: Tuesday	Note(F9) 2 Hot Keys
My Favorites Main Ai Tweaker Advanced Monitor Boot Tool <u>Exit</u>	Hardware Monitor
Load Optimized Defaults	СРО
➤ Save Changes & Reset	Frequency Temperature 3200 MHz 41°C
 Discard Changes & Exit 	
► Launch EFI Shell from USB drives	100.0 MHz 0.937 V
	Memory
	Frequency Voltage
	1333 MHZ 1.500 V
	Capacity
	2048 MB
	Voltage
	+12V +5V
	12.288 V 5.040 V
Load ASUS optimized default settings.	+3.3V
\mathbb{O}	3.376 V
	Last Modified EzMode(F7) →
Version 2.16.1240. Copyright (C) 2014 American Megatrends, Inc.	