BIOS Setup (Intel[®] W790 Series)

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Some of the BIOS settings are available only when the motherboard chipset and the CPU/memory used support the feature. For more information about Intel® CPUs' unique features, please visit Intel's website.



Whether the system will work stably with the overclock/overvoltage settings you made is dependent on your overall system configurations. Incorrectly doing overclock/overvoltage may result in damage to CPU, chipset, or memory and reduce the useful life of these components. This page is for advanced users only and we recommend you not to alter the default settings to prevent system instability or other unexpected results. (Inadequately altering the settings may result in system's failure to boot. If this occurs, clear the CMOS values and reset the board to default values.)

BIOS Setup

BIOS (Basic Input and Output System) records hardware parameters of the system in the CMOS on the motherboard. Its major functions include conducting the Power-On Self-Test (POST) during system startup, saving system parameters and loading operating system, etc. BIOS includes a BIOS Setup program that allows the user to modify basic system configuration settings or to activate certain system features.

When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS to keep the configuration values in the CMOS.

To access the BIOS Setup program, press the <Delete> key during the POST when the power is turned on.

To upgrade the BIOS, use either the GIGABYTE Q-Flash or Q-Flash Plus utility.

- Q-Flash allows the user to quickly and easily upgrade or back up BIOS without entering the operating system.
- Q-Flash Plus allows you to update the BIOS when your system is off (S5 shutdown state). Save the latest
 BIOS on a USB thumb drive and plug it into the dedicated port, and then you can now flash the BIOS
 automatically by simply pressing the Q-Flash Plus button.

For instructions on using the Q-Flash and Q-Flash Plus utilities, please navigate to the "Unique Features" page of GIGABYTE's website and search for "BIOS Update Utilities."



- Because BIOS flashing is potentially risky, if you do not encounter problems using the current version of BIOS, it is recommended that you not flash the BIOS. To flash the BIOS, do it with caution. Inadequate BIOS flashing may result in system malfunction.
- It is recommended that you not alter the default settings (unless you need to) to prevent system
 instability or other unexpected results. Inadequately altering the settings may result in system's
 failure to boot. If this occurs, try to clear the CMOS values and reset the board to default values.
- Refer to the introductions of the battery/clear CMOS jumper/battery in user's manual or refer to the "Load Optimized Defaults" section for how to clear the CMOS values.

Startup Screen

The following startup Logo screen will appear when the computer boots.



Function Keys:

: BIOS SETUP\Q-FLASH

Press the <Delete> key to enter BIOS Setup or to access the Q-Flash utility in BIOS Setup.

<F12>: BOOT MENU

Boot Menu allows you to set the first boot device without entering BIOS Setup. In Boot Menu, use the up arrow key $<\uparrow>$ or the down arrow key $<\downarrow>$ to select the first boot device, then press <Enter> to accept. The system will boot from the device immediately.

Note: The setting in Boot Menu is effective for one time only. After system restart, the device boot order will still be based on BIOS Setup settings.

<END>: Q-FLASH

Press the <End> key to access the Q-Flash utility directly without having to enter BIOS Setup first.

The Main Menu

You can press the arrow keys on your keyboard to move among the items and press <Enter> to accept or enter a sub-menu. Or you can use your mouse to select the item you want.



Function Keys

<enter>/Double Click</enter>	Execute command or enter a menu
<←><→><↑><↓>	Move the selection bar to select an configuration item
<f1></f1>	Show descriptions of the function keys
<f3></f3>	Save the current BIOS settings to a profile
<f4></f4>	Load the BIOS settings from a profile created before
<f5></f5>	Restore the previous BIOS settings for the current submenus
<f6></f6>	Display the Smart Fan 6 screen
<f7></f7>	Load the Optimized BIOS default settings for the current submenus
<f8></f8>	Access the Q-Flash utility
<f10></f10>	Save all the changes and exit the BIOS Setup program
<f12></f12>	Capture the current screen as an image and save it to your USB drive
	Main Menu: Exit the BIOS Setup program
NESU/	Submenus: Exit current submenu

M.I.T.

GABYTE					10/15/2024 Tuesday 14:4
MJ.T. System	Peripherals	Platform Configuration	Socket Configuration	BIOS	Power Save & Exi
Voltage Configure PC Health Status					Enter : Select ←Ț↓→ : Mave Cursor F1 : Help
s Smarf fin 6 G Fluch					re inder holde re inneren Aufen re inneren Aufen re inneren Aufen re offenen Bufwich re offenen Bufwich re offenen Bufwich re offenen re offen
itage Configure					🛠 Smart Flan 6 (16) 🔳 Q-Filash (FB)

Voltage Configure

This sub-menu allows you to set CPU, chipset and memory voltages. The displayed items and values may vary depending on the CPU used.

PC Health Status

Displays the current system voltages. The displayed items and values may vary depending on the CPU used.

Smart Fan 6

Use the <F6> function key to quickly switch to this screen. This screen allows you to configure fan speed related settings for each fan header or monitor your system/CPU temperature.

→ TUNE ALL

Allows you to apply the current settings to all fan headers.

∽ Temperature

Displays the current temperature of the selected target area.

☞ Fan Speed

Displays current fan/pump speeds.

☞ Flow Rate

Displays the flow rate of your water cooling system. Press <Enter> on Fan Speed to switch to this function.

☞ Fan Speed Control

Allows you to determine whether to enable the fan speed control function and adjust the fan speed.

- > Normal Allows the fan to run at different speeds according to the CPU temperature.
- Silent Allows the fan to run at slow speeds.
- Manual Allows you to drag the curve nodes to adjust fan speed. Or you can use the EZ Tuning feature. After adjusting the node position, press Apply to automatically calculate the slope of the curve.
- ➡ Full Speed Allows the fan to run at full speeds.

∽ Fan Control Use Temperature Input

Allows you to select the reference temperature for fan speed control.

☞ Temperature Interval

Allows you to select the temperature interval for fan speed change.

☞ FAN/PUMP Control Mode

- Auto Lets the BIOS automatically detect the type of fan installed and sets the optimal control mode.
- ▶ PWM PWM mode is recommended for a 4-pin fan/pump.

☞ FAN/PUMP Stop

Enables or disables the fan/pump stop function. You can set the temperature limit using the temperature curve. The fan or pump stops operation when the temperature is lower than the limit.

☞ FAN/PUMP Mode

Allows you to set the operating mode for the fan.

- Slope Adjusts the fan speed linearly based on the temperature.
- Stair Adjusts the fan speed stepwise based on the temperature.

☞ FAN/PUMP Fail Warning

Allows the system to emit warning sound if the fan/pump is not connected or fails. Check the fan/pump condition or fan/pump connection when this occurs.

∽ Load Fan Profile

This function allows you to load a previously saved BIOS profile without the hassles of reconfiguring the BIOS settings. Or you can select **Select File in HDD/FDD/USB** to load a profile from your storage device.

∽ Save Fan Profile

This function allows you to save the current settings to a profile. You can save the profile in the BIOS or select **Select File in HDD/FDD/USB** to save the profile to your storage device.

Q-Flash

Allows you to access the Q-Flash utility to update the BIOS or back up the current BIOS configuration.

System

MJ.T. System	Peripherals	Platform Configuration	Socket Configuration	Power Save & E
				Fature Colora
Model Name		W790 AI TOP		←11→: Move Cursor
BIOS Version				F1 Help
BIOS Date		10/08/2024		F3 : Save Profile
BIOS ID		SAFHF001		F5 : Previous Values
Access Level		Administrator		F7 : Optimized Defaults FR : O-Flash (NOS Lindate Tool)
Memory Information				F10 : Save/Exit F12 : Print Screen
Total Memory		32768 MB		ESC : Save/Exit
System Language		English		
System Date		(10 / 15 / 2024		
System Time				
se the system default language				

This section provides information on your motherboard model and BIOS version. You can also select the default language used by the BIOS and manually set the system time.

∽ Access Level

Displays the current access level depending on the type of password protection used. (If no password is set, the default will display as **Administrator**.) The Administrator level allows you to make changes to all BIOS settings; the User level only allows you to make changes to certain BIOS settings but not all.

∽ System Language

Selects the default language used by the BIOS.

∽ System Date

Sets the system date. The date format is week (read-only), month, date, and year. Use <Enter> to switch between the Month, Date, and Year fields and use the <Page Up> or <Page Down> key to set the desired value.

∽ System Time

Sets the system time. The time format is hour, minute, and second. For example, 1 p.m. is 13:00:00. Use <Enter> to switch between the Hour, Minute, and Second fields and use the <Page Up> or <Page Down> key to set the desired value.

Peripherals

						Tue	sday 14.
MJ.T.	System	Peripherals	Platform Configuration	Socket Configuration	BIOS	Power	Save & Exit
RST_SW (MULTIKEY)			Set this button to HW	Aeset			
LEDs in System Powe	ar On State					Enter Select ←1 →: Maye Cursor	
CKL Support			Disabled			F1 Help	
Trusted Computing						F3 : Save Profile	
PCI Subsystem Settin	8					F4 - COBO PTOTIle ES - Drasiousi Makaai	
USB Configuration						F6 : Smart Fan 6	
Gigabyte Utilities Dow	mloader Configuration					F7 : Optimized Defaults	
Network Stack Config	uration					F8: Q-Flash (BIOS Update Too E10: Smm/Exit	÷
NVMe Configuration						F12 : Print Screen	
						ESC : Save/Evit	
All Cpu Information							
Intel(R) Ethernet Netv	vork Adapter X710-TL	- 00.1F.D0.07.10.05					
Intel(R) Ethernet Netv	vork Adapter X710-TL	- 00.1F.D0.07:10.15					
e Multikey function							
						🛠 Smart Fan 6 (F6) 🔳 Q-Flag	th (F8)

∽ RST_SW (MULTIKEY) (Functionality of the RST_SW Button)

- ➡ Set this button to HW Reset
- Use the button to reset your system.
- ▶ Set this button to Switch LED On/Off
- Use the button to turn on/off the motherboard LEDs. Use the button to enter the BIOS Setup.
- ➡ Set this button to Enter BIOS Setup

→ LEDs in System Power On State

Allows you to enable or disable motherboard LED lighting when the system is on.

- ▶ Off Disables the selected lighting mode when the system is on.
- ► On Enables the selected lighting mode when the system is on.

☞ CXL Support

Enables or disables CXL (Compute Express Link) support.

Trusted Computing •

Enables or disables Trusted Platform Module (TPM).

. PCI Subsystem Settings

Allows you to configure PCI, PCI-X or PCI Express settings.

∽ Above 4G Decoding

Enables or disables 64-bit capable devices to be decoded in above 4 GB address space (only if your system supports 64-bit PCI decoding). Set to Enabled if more than one advanced graphics card are installed and their drivers are not able to be launched when entering the operating system (because of the limited 4 GB memory address space).

☞ Re-Size BAR Support

Enables or disables support for Resizable BAR.

∽ SR-IOV Support

Allows you to determine whether to enable the Single Root IO Virtualization (SR-IOV) feature when a PCIe device that supports SR-IOV is installed.

USB Configuration

Contract Legacy USB Support

Allows USB keyboard/mouse to be used in MS-DOS.

∽ XHCI Hand-off

Determines whether to enable XHCI Hand-off feature for an operating system without XHCI Hand-off support.

USB Mass Storage Driver Support Enables or disables support for USB storage devices.

☞ Mass Storage Devices

Displays a list of connected USB mass storage devices. This item appears only when a USB storage device is installed.

☞ USB transfer time-out

Allows you to set the USB transfer time-out value.

Device reset time-out

Allows you to set the USB mass storage device Start Unit command time-out.

∽ Device power-up delay

Allows you to set the time the device will take before it properly reports itself to the host controller.

Gigabyte Utilities Downloader Configuration

∽ Gigabyte Utilities Downloader Configuration

Allows you to determine whether to automatically download and install GIGABYTE Control Center after entering the operating system. Before the installation, make sure the system is connected to the Internet.

Network Stack Configuration

Over the stack of the stack

Disables or enables booting from the network to install a GPT format OS, such as installing the OS from the Windows Deployment Services server.

☞ IPv4 PXE Support

Enables or disables IPv4 PXE Support. This item is configurable only when **Network Stack** is enabled.

☞ IPv4 HTTP Support

Enables or disables HTTP boot support for IPv4. This item is configurable only when $\ensuremath{\textit{Network Stack}}$ is enabled.

☞ IPv6 PXE Support

Enables or disables IPv6 PXE Support. This item is configurable only when Network Stack is enabled.

☞ IPv6 HTTP Support

Enables or disables HTTP boot support for IPv6. This item is configurable only when **Network Stack** is enabled.

→ PXE boot wait time

Allows you to configure how long to wait before you can press <Esc> to abort the PXE boot. This item is configurable only when **Network Stack** is enabled.

☞ Media detect count

Allows you to set the number of times to check the presence of media. This item is configurable only when **Network Stack** is enabled.

NVMe Configuration

Displays information on your M.2 NVME PCIe SSD if installed.

All Cpu Information

Displays information on the installed CPU.

Intel(R) Ethernet Network Adapter

This sub-menu provides information on LAN configuration and related configuration options.

Platform Configuration

						Tuesday 144.4
MJ.T.	System	Peripherals	Platform Configuration	Socket Configuration	BIOS	Power Save & Exit
PCH-IO Configuration ThunderbaltTMI Conf	guration					ord Section 1 1 Hole State Print Country (1 Hole State Print Country (1 Hole State Print Country (1 House State S
H Parameters					*	Smart Fan 6 (F6) 🔳 Q-Flash (F8)

PCH-IO Configuration\SATA And RST Configuration

☞ SATA Configuration

Enables or disables the integrated SATA controllers.

∽ SATA Mode Selection

Enables or disables RAID for the SATA controllers integrated in the Chipset or configures the SATA controllers to AHCI mode.

- ➡ RAID Enables RAID for the SATA controller.
- AHCI Configures the SATA controllers to AHCI mode. Advanced Host Controller Interface (AHCI) is an interface specification that allows the storage driver to enable advanced Serial ATA features such as Native Command Queuing and hot plug.

☞ SATA Test Mode

Enables or disables SATA Test Mode.

∽ Aggressive LPM Support

Enables or disables the power saving feature, ALPM (Aggressive Link Power Management), for the Chipset SATA controllers.

Force SATA Gen Speed

Allows you to set the operation mode of the SATA ports to Gen 1, Gen 2, or Gen 3.

☞ SATA DevSlp Speed

Allows you to determine whether to let the connected SATA device go into sleep mode.

☞ SATA SGPIO Enable

Enables or disables serial GPIO for the SATA controllers.

∽ SATA Port

Enables or disables each SATA port.

Hot plug

Enables or disable the hot plug capability for each SATA port.

External

Enables or disables support for external SATA devices.

∽ Spin Up Device

Enables or disables staggered spin-up support for SATA devices.

☞ SATA Device Type

Allows you to select the type of the device connected to the SATA port.

☞ DITO Configuration

Allows you to determine whether to enable DITO settings for the SATA port.

PCH-IO Configuration\HD Audio Configuration

☞ HD Audio

Enables or disables the onboard audio function. If you wish to install a 3rd party add-in audio card instead of using the onboard audio, set this item to **Disabled**.

∽ Audio DSP

Enables or disables the DSP feature for the onboard audio.

HD Audio Advanced Configuration

This screen provides further adjustments to the onboard audio settings.

→ AC BACK

Determines the state of the system after the return of power from an AC power loss.

- Memory The system returns to its last known awake state upon the return of the AC power.
- Always On The system is turned on upon the return of the AC power.
- Always Off The system stays off upon the return of the AC power.

☞ IOAPIC 24-119 Entries

Enables or disables this function.

☞ SPD Write Disable

Allows you to determine whether to disable SPD Write.

- ► True Disables SPD Write.
- ➡ False Enables SPD Write.

Thunderbolt(TM) Configuration

This sub-menu provides Thunderbolt related configuration options.

∽ PCIE Tunneling over USB4

Enables or disables PCIE Tunneling over USB4.

∽ Reserve Pcie Bus for TBT

This item allows you to set the number of the PCIe bus reserved for Thunderbolt[™] ports.

Memory For Tbt

Allows you to set the reserved memory for this root bridge.

☞ PMemory For Tbt

Allows you to set the reserved prefetchable memory for this root bridge.

Socket Configuration

MJ.T. Processor Configuratio Memory Configuration IIIO Configuration Advanced Power Mar	System ion n nagement Configuration	Peripherals	Platform Configuration	Socket Configuration		Power Save & Ext
Processor Configuratio Memory Configuratio IID Configuration Advanced Power Mar	ion n nagement Configuration					
						dan - Gand II Marc Canao II Marc Canao
plays and provides optio	ns to change the Process	or Settings			*	Smart Fan 6 (F6)

Processor Configuration

This screen provides further adjustments to the processor settings.

Memory Configuration

This screen provides further adjustments to the memory settings.

IIO Configuration

This screen provides further adjustments to the IIC settings.

Advanced Power Management Configuration

This screen provides further adjustments to the power management settings.

BIOS

M.J.T. System	Peripherals	Platform Configuration	Socket Configuration	BIOS	Power Save
Bootup NumLock State		On			←11→:Move Cursor
Security Option		System			F1 Help
Full Screen LOGO Show		Enabled			F3 : Save Profile
					P5 : Presigues Values
					F6 : Smart Fan 6
					F7: Optimized Defaults
Fast Boot		Disabled			F10 Save/Exit
					F12 : Print Screen
Mouse Speed					ESC : Save/Exit
Administrator Password					
User Password					
Secure Boot					

∽ Bootup NumLock State

Enables or disables Numlock feature on the numeric keypad of the keyboard after the POST.

∽ Security Option

Specifies whether a password is required every time the system boots, or only when you enter BIOS Setup. After configuring this item, set the password(s) under the Administrator Password/User Password item.

Setup A password is only required for entering the BIOS Setup program.

System A password is required for booting the system and for entering the BIOS Setup program.

☞ Full Screen LOGO Show

Allows you to determine whether to display the GIGABYTE Logo at system startup. **Disabled** skips the GIGABYTE Logo when the system starts up.

☞ Boot Option Priorities

Specifies the overall boot order from the available devices. Removable storage devices that support GPT format will be prefixed with "UEFI:" string on the boot device list. To boot from an operating system that supports GPT partitioning, select the device prefixed with "UEFI:" string.

Or if you want to install an operating system that supports GPT partitioning such as Windows 11 64-bit, select the optical drive that contains the Windows 11 64-bit installation disk and is prefixed with "UEFI:" string.

☞ Fast Boot

Enables or disables Fast Boot to shorten the OS boot process. Ultra Fast provides the fastest bootup speed.

∽ SATA Support

► Last Boot SATA Devices Only

Except for the previous boot drive, all SATA devices are disabled before the OS boot process completes.

✤ All SATA Devices All SATA devices are functional in the operating system and during the POST. This item is configurable only when Fast Boot is set to Enabled.

∽ NVMe Support

Allows you to enable or disable fast boot support for NVMe devices. This item is configurable only when **Fast Boot** is set to **Enabled**.

☞ UFS Support

Allows you to enable or disable fast boot support for UFS devices. This item is configurable only when **Fast Boot** is set to **Enabled**.

☞ USB Support

- Disabled
 All USB devices are disabled before the OS boot process completes.
- ➡ Full Initial All USB devices are functional in the operating system and during the POST.

▶ Partial Initial
Part of the USB devices are disabled before the OS boot process completes.

This item is configurable only when Fast Boot is set to Enabled.

∽ NetWork Stack Driver Support

- Disable Link Disables booting from the network.
- Enabled Enables booting from the network.

This item is configurable only when Fast Boot is set to Enabled.

☞ Redirection Support

Allows you to enable or disable redirection support. This item is configurable only when ${\bf Fast}~{\bf Boot}$ is set to ${\bf Enabled}.$

∽ Mouse Speed

Allows you to set the mouse cursor movement speed.

∽ Administrator Password

Allows you to configure an administrator password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. Differing from the user password, the administrator password allows you to make changes to all BIOS settings.

☞ User Password

Allows you to configure a user password. Press <Enter> on this item, type the password, and then press <Enter>. You will be requested to confirm the password. Type the password again and press <Enter>. You must enter the administrator password (or user password) at system startup and when entering BIOS Setup. However, the user password only allows you to make changes to certain BIOS settings but not all. To cancel the password, press <Enter> on the password item and when requested for the password, enter the correct one first. When prompted for a new password, press <Enter> without entering any password. Press <Enter> again when prompted to confirm.

NOTE: Before setting the User Password, be sure to set the Administrator Password first.

Secure Boot

Allows you to enable or disable Secure Boot and configure related settings.

Power

ABYTE				10/ Tue	^{15/2024} 14:
MJ.T. System	Peripherals	Platform Configuration	Socket Configuration	Power	
Soft-Off by DWD-RTTN		lostant-Off		Enter : Select	
FrP		Disabled		F1 : Helo	
Resume by Alarm		Disabled		F3 : Save Profile	
Wake up day				F4 : Load Profile	
				F6 : Smart Fan 6	
				F7 : Optimized Defaults	
				F8 : Q-Flash (BIOS Update Too E10 : Smm/Evit	0
Power Loading		Auto		F12 : Print Screen	
et Off = System will turn off instantly by pres y 4 Sec. = Press and hold the power button fo	sing the power button. r 4 seconds to turn off th	ne system.		🛠 Smart fan 6 (r6) 🔳 Q-Fla	

∽ Soft-Off by PWR-BTTN

Configures the way to turn off the computer in MS-DOS mode using the power button.

- ▶ Instant-Off Press the power button and then the system will be turned off instantly.
- ➤ Delay 4 Sec. Press and hold the power button for 4 seconds to turn off the system. If the power button is pressed for less than 4 seconds, the system will enter suspend mode.

☞ ErP

Determines whether to let the system consume least power in S5 (shutdown) state. Note: When this item is set to **Enabled**, the Resume by Alarm function becomes unavailable.

∽ Resume by Alarm

Determines whether to power on the system at a desired time.

If enabled, set the date and time as following:

>> Wake up day: Turn on the system at a specific time on each day or on a specific day in a month.

Note: When using this function, avoid inadequate shutdown from the operating system or removal of the AC power, or the settings may not be effective.

∽ Power Loading

Enables or disables dummy load. When the power supply is at low load, a self-protection will activate causing it to shutdown or fail. If this occurs, please set to **Enabled**. **Auto** lets the BIOS automatically configure this setting.

Save & Exit

ABYTE						10/15/ Tuesda	²⁰²⁴ 16:
MJ.T. Syst	em	Peripherals	Platform Configuration	Socket Configuration	BIOS	Power	Save & Ex
Save & Exit Setup Exit Without Saving						Enter : Select ←†↓→ : Move Cursor F1 : Helo	
Load Optimized Defaults						F3 : Save Profile F4 : Load Profile	
						F5 : Previous Values F6 : Smart Fan 6 F7 : Optimized Defaults	
Save Profiles						F8 : Q-Flash (BIOS Update Tool) F10 : Save/Exit	
Load Profiles						F12 : Print Screen	
						ESCISIVE/EAL	
above records all chapper and a							
ono sonny and anges made.						N Constant (100) - D D D by b (1	
						d-sentratione) 🖷 d-sentralis	

∽ Save & Exit Setup

Press <Enter> on this item and select **Yes**. This saves the changes to the CMOS and exits the BIOS Setup program. Select **No** or press <Esc> to return to the BIOS Setup Main Menu.

☞ Exit Without Saving

Press <Enter> on this item and select **Yes**. This exits the BIOS Setup without saving the changes made in BIOS Setup to the CMOS. Select **No** or press <Esc> to return to the BIOS Setup Main Menu.

∽ Load Optimized Defaults

Press <Enter> on this item and select **Yes** to load the BIOS factory default settings. The BIOS defaults settings help the system to operate in optimum state. Always load the Optimized defaults after updating the BIOS or after clearing the CMOS values.

∽ Boot Override

Allows you to select a device to boot immediately. Press <Enter> on the device you select and select Yes to confirm. Your system will restart automatically and boot from that device.

∽ Save Profiles

This function allows you to save the current BIOS settings to a profile. You can create up to 8 profiles and save as Setup Profile 1~ Setup Profile 8. Press <Enter> to complete. Or you can select **Select File in HDD/FDD/USB** to save the profile to your storage device.

∽ Load Profiles

If your system becomes unstable and you have loaded the BIOS default settings, you can use this function to load the BIOS settings from a profile created before, without the hassles of reconfiguring the BIOS settings. First select the profile you wish to load and then press <Enter> to complete. You can select **Select File in HDD/FDD/USB** to input the profile previously created from your storage device or load the profile automatically created by the BIOS, such as reverting the BIOS settings to the last settings that worked properly (last known good record).