

# ***TP67B+ UEFI BIOS Manual***

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## **UEFI BIOS Setup**

### **Introduction**

The purpose of this manual is to describe the settings in the AMI UEFI BIOS Setup program on this motherboard. The Setup program allows users to modify the basic system configuration and save these settings to NVRAM.

UEFI BIOS determines what a computer can do without accessing programs from a disk. This system controls most of the input and output devices such as keyboard, mouse, serial ports and disk drives. BIOS activates at the first stage of the booting process, loading and executing the operating system. Some additional features, such as virus and password protection or chipset fine-tuning options are also included in UEFI BIOS.

The rest of this manual will to guide you through the options and settings in UEFI BIOS Setup.

### **Plug and Play Support**

This AMI UEFI BIOS supports the Plug and Play Version 1.0A specification.

### **EPA Green PC Support**

This AMI UEFI BIOS supports Version 1.03 of the EPA Green PC specification.

### **ACPI Support**

AMI ACPI UEFI BIOS support Version 1.0/2.0 of Advanced Configuration and Power interface specification (ACPI). It provides ASL code for power management and device configuration capabilities as defined in the ACPI specification, developed by Microsoft, Intel and Toshiba.

### **PCI Bus Support**

This AMI UEFI BIOS also supports Version 2.3 of the Intel PCI (Peripheral Component Interconnect) local bus specification.

### **DRAM Support**

DDR3 SDRAM (Double Data Rate III Synchronous DRAM) is supported.

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## Supported CPUs

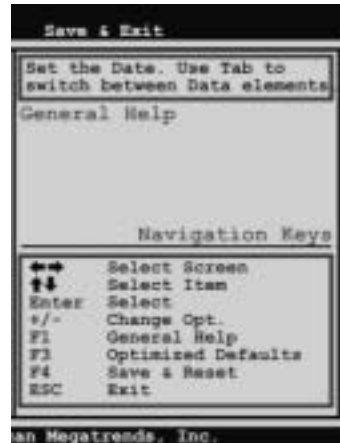
This AMI UEFI BIOS supports the Intel CPU.

## Using Setup

When starting up the computer, press <Del> during the **Power-On Self-Test (POST)** to enter the UEFI BIOS setup utility.

In the UEFI BIOS setup utility, you will see **General Help** description at the top right corner, and this is providing a brief description of the selected item.

**Navigation Keys** for that particular menu are at the bottom right corner, and you can use these keys to select item and change the settings.



## Notice

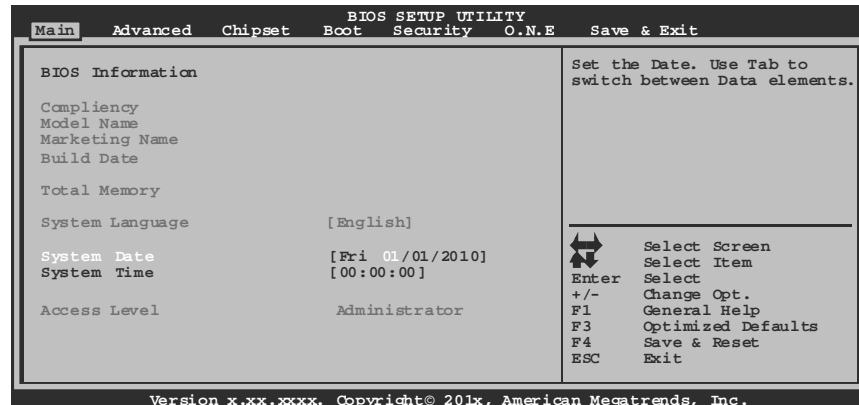
- The default UEFI BIOS settings apply for most conditions to ensure optimum performance of the motherboard. If the system becomes unstable after changing any settings, please load the default settings to ensure system's compatibility and stability. Use Load Setup Default under the Exit Menu.
- For better system performance, the UEFI BIOS firmware is being continuously updated. The UEFI BIOS information described in this manual is for your reference only. The actual UEFI BIOS information and settings on board may be slightly different from this manual.
- The content of this manual is subject to be changed without notice. We will not be responsible for any mistakes found in this user's manual and any system damage that may be caused by wrong-settings.

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## 1 Main Menu

Once you enter AMI UEFI BIOS Setup Utility, the Main Menu will appear on the screen providing an overview of the basic system information.



### BIOS Information

Shows system information including UEFI BIOS version, model name, marketing name, build date, etc.

### Total Memory

Shows system memory size, VGA shard memory will be excluded.

### System Date

Set the system date. Note that the 'Day' automatically changes when you set the date.

### System Time

Set the system internal clock.

### Access Level

Shows the access level of current user.

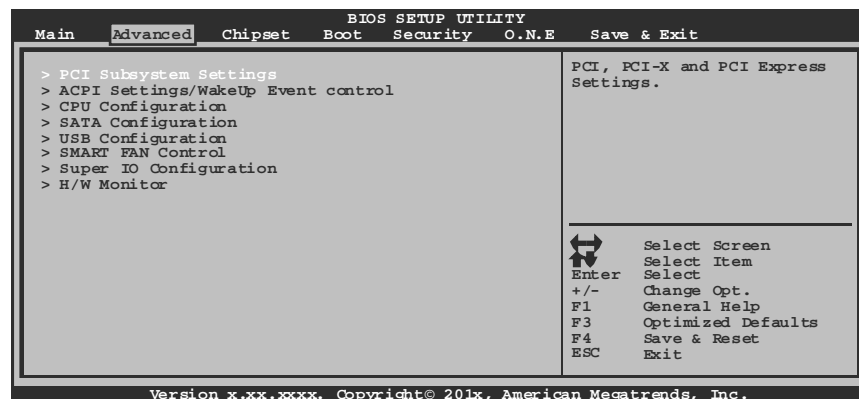
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## 2 Advanced Menu

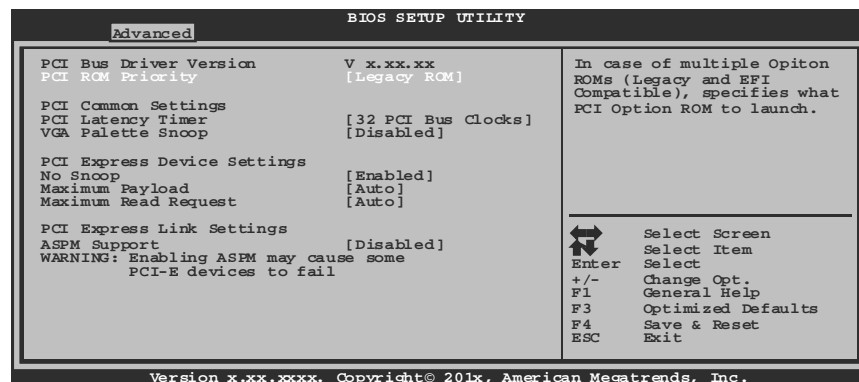
The Advanced Menu allows you to configure the settings of CPU, Super I/O, Power Management, and other system devices.

### Notice

- Beware of that setting inappropriate values in items of this menu may cause system to malfunction.



### PCI Subsystem Settings



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## **PCI ROM Priority**

In case of multiple option ROMs (Legacy and EFI Compatible), this item specifies what PCI Option ROM to launch

Options: Legacy ROM (Default) / EFI Compatible ROM

## **PCI Latency Timer**

This item sets the value to be programmed into PCI Latency Timer Register.

Options: 32 PCI Bus Clocks (Default) / 64 PCI Bus Clocks / 96 PCI Bus Clocks / 128 PCI Bus Clocks / 160 PCI Bus Clocks / 192 PCI Bus Clocks / 224 PCI Bus Clocks / 248 PCI Bus Clocks

## **VGA Palette Snoop**

This item enables or disables VGA Palette Registers Snooping.

Options: Disabled (Default) / Enabled

## **No Snoop**

This item enables or disables PCI Express Device No Snoop option.

Options: Enabled (Default) / Disabled

## **Maximum Payload**

This item sets Maximum Payload of PCI Express Device or allows System BIOS to select the value.

Options: Auto (Default) / 128 Bytes / 256 Bytes / 512 Bytes / 1024 Bytes / 2048 Bytes / 4096 Bytes

## **Maximum Read Request**

This item sets Maximum Read Request Size of PCI Express Device or allows System BIOS to select the value.

Options: Disabled (Default) / Enabled

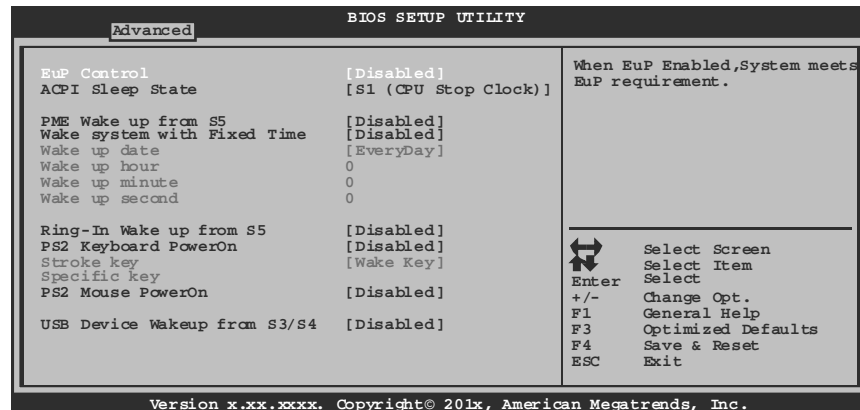
## **ASPM Support**

This item sets the ASPM Level: Force LO – Force all links to LO State; Auto – BIOS auto configures; Disabled – Disables ASPM.

Options: Disabled (Default) / Auto / Force LO

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## ACPI Settings/WakeUp Event control



### EuP Control

When EuP is enabled, the system will meet EuP requirement.

Options: Disabled (Default) / Enabled

### ACPI Sleep State

This item selects the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.

Options: S1 (CPU Stop Clock) (Default) / Suspend Disabled / S3 (Suspend to RAM)

### PME Wake up from S5

The item enables the system to wake from S5 using PME event.

Options: Disabled (Default) / Enabled

### Wake system with Fixed Time

This item enables or disables the system to wake on by alarm event. When this item is enabled, the system will wake on the hr::min::sec specified.

Options: Disabled (Default) / Enabled

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## **Wake up date**

You can choose which date the system will boot up.

## **Wake up hour / Wake up minute / Wake up second**

You can choose the system boot up time, input hour, minute and second to specify.

## **Ring-In Wake up from S5**

This item enables the system to wake from S5 using Ring-In event.

Options: Disabled (Default) / Enabled

## **PS2 Keyboard PowerOn**

This item allows you to control the keyboard power on function.

Options: Disabled (Default) / Any Key / Stroke Key / Specific Key

## **Stroke Keys Selected**

This item will show only when Keyboard PowerOn is set "Stroke Key."

Options: Wake Key (Default) / Power Key / Ctrl+F1 / Ctrl+F2 / Ctrl+F3 /  
Ctrl +F4 / Ctrl+F5 / Ctrl+F6

## **Specific Key Enter**

This item will show only when Keyboard PowerOn is set "Specific Key." Press Enter to set Specific key.

## **PS2 Mouse PowerOn**

This item allows you to control the mouse power on function.

Options: Disabled (Default) / Enabled

## **USB Device Wakeup from S3/S4**

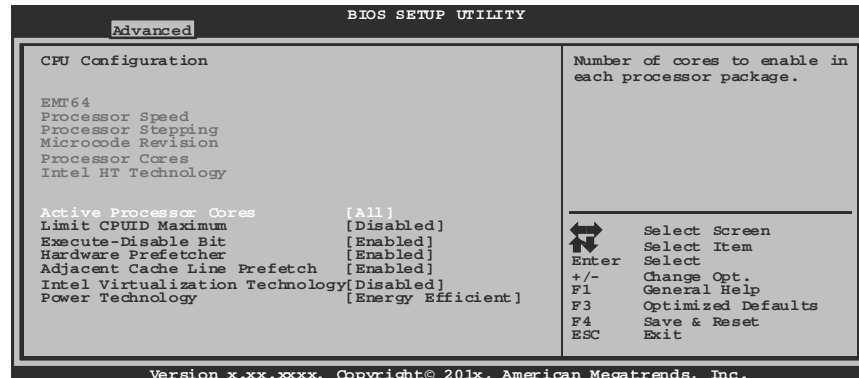
This item allows you to enable or disabled the USB resume from S3/S4 function.

Options: Disabled (Default) / Enabled



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## CPU Configuration



### Active Processor Cores

This item sets number of cores to enable in each processor pack age.

Options: All (Default) / 1 / 2 / 3

### Limit CPUID Maximum

When the computer is booted up, the operating system executes the CPUID instruction to identify the processor and its capabilities. Before it can do so, it must first query the processor to find out the highest input value CPUID recognizes. This determines the kind of basic information CPUID can provide the operating system.

Options: Disabled (Default) / Enabled

### Execute-Disable Bit

XD can prevent certain classes of malicious buffer overflow attacks when combined with a supporting OS (Windows Server 2003 SP1, Windows XP SP2, SuSE Linux 9.2, RedHat Enterprise 3 Update 3.).

Options: Enabled (Default) / Disabled

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## **Hardware Prefetcher**

The processor has a hardware prefetcher that automatically analyzes its requirements and prefetches data and instructions from the memory into the Level 2 cache that are likely to be required in the near future. This reduces the latency associated with memory reads.

Options: Enabled (Default) / Disabled

## **Adjacent Cache Line Prefetch**

The processor has a hardware adjacent cache line prefetch mechanism that automatically fetches an extra 64-byte cache line whenever the processor requests for a 64-byte cache line. This reduces cache latency by making the next cache line immediately available if the processor requires it as well.

Options: Enabled (Default) / Disabled

## **Intel Virtualization Tech**

Virtualization Technology can virtually separate your system resource into several parts, thus enhance the performance when running virtual machines or multi interface systems.

Options: Disabled (Default) / Enabled

## **Power Technology**

This item enables the power management features.

Options: Energy Efficient (Default) / Disabled / Custom

## **CPU C3 Report**

This item enables/disables CPU C3 (ACPI C2) report to OS.

Options: Disabled (Default) / ACPI C2 / ACPI C3

## **CPU C6 Report**

This item enables/disables CPU C6 (ACPI C3) report to OS.

Options: Enabled (Default) / Disabled

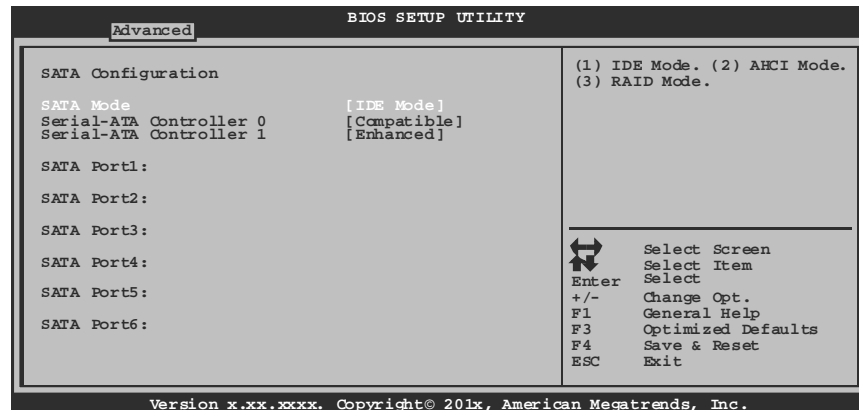
## **Package C State Limit**

This item sets Package C State Limit.

Options: No Limit (Default) / C0 / C1 / C6 / C7

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## SATA Configuration



### SATA Mode

This item sets SATA Mode.

Options: IDE Mode (Default) / AHCI Mode / RAID Mode / Disabled

### Serial-ATA Controller 0

This item enables/disables Serial ATA Controller 0.

Options: Compatible (Default) / Disabled / Enhanced

### Serial-ATA Controller 1

This item enables/disables Serial ATA Controller 1.

Options: Enhanced (Default) / Disabled

### Aggressive Link Power Management

Aggressive Link Power Management Support.

Options: Enabled (Default) / Disabled

### Spin Up Device

If this item is enabled for any of ports, Staggered Spin Up will be performed, and only the drives that have this option enabled will spin up at boot. Otherwise, all drives spin up at boot.

Options: Disabled (Default) / Enabled

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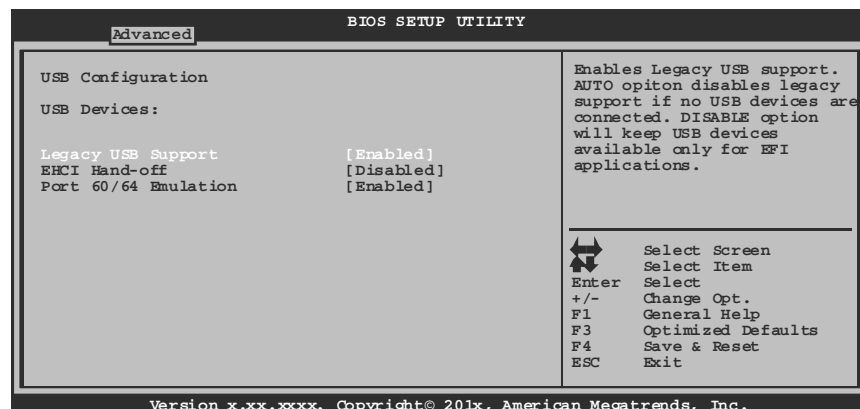
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## Hot Plug

SATA Ports Hot Plug Support.

Options: Enabled (Default) / Disabled

## USB Configuration



### Legacy USB Support

This item determines if the BIOS should provide legacy support for USB devices like the keyboard, mouse, and USB drive. This is a useful feature when using such USB devices with operating systems that do not natively support USB (e.g. Microsoft DOS or Windows NT).

Options: Enabled (Default) / Disabled / Auto

### EHCI Hand-Off

This is a workaround for OSes without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.

Options: Disabled (Default) / Enabled

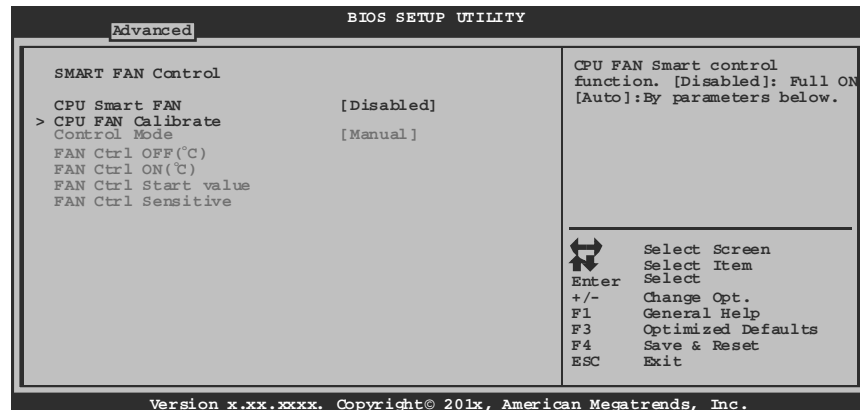
### Port 60/64 Emulation

This item enables I/O port 60h/64h emulation support. This should be enabled for the complete USB keyboard legacy support for non-USB aware OSes.

Options: Enabled (Default) / Disabled

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## SMART FAN Control



### CPU Smart FAN

This item allows you to control the CPU Smart Fan function.

Options: Disabled (Default) / Auto

### CPU FAN Calibrate

Press [ENTER] to calibrate CPU FAN.

### Control Mode

This item provides several operation modes of the fan.

Options: Quiet / Aggressive / Manual

### Fan Ctrl OFF(°C)

When CPU temperature is lower than this value, the CPU fan will keep lowest RPM.

Options: 10 (°C) (default)

### Fan Ctrl On(°C)

When CPU temperature is higher than this value, the CPU fan controller will turn on.

Options: 20 (°C) (Default)

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## Fan Ctrl Start Value

This item sets CPU FAN Start Speed Value.

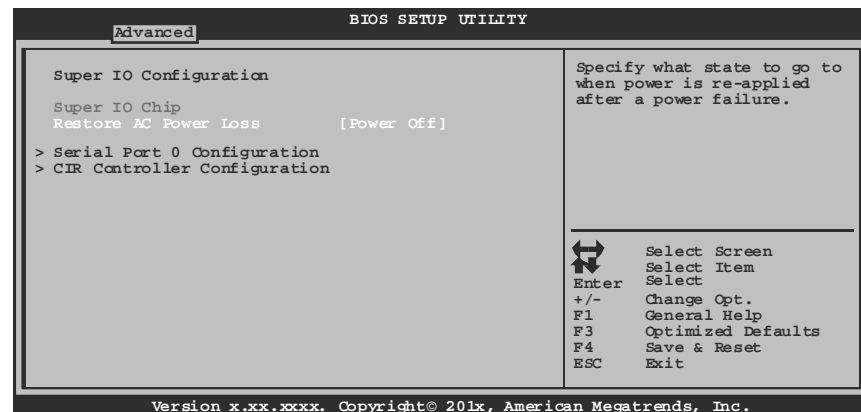
Options: 50 (Default)

## Fan Ctrl Sensitive

The bigger the numeral is, the higher the FAN speed is.

Options: 30 (Default)

## Super IO Configuration



## Restore AC Power Loss

This setting specifies how your system should behave after a power fail or interrupts occurs. Power Off: Leaving the system in power-off status after power recovers. Power ON: Powering on the system immediately when power returns. Last State: 1. Leaving the system in power-off if the system shuts down at DC off status; 2. Powering on the system immediately if the system shuts down at DC on status.

Options: Power Off (Default) / Power On / Last State

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## Serial Port 0 Configuration

BIOS SETUP UTILITY	
<b>Advanced</b>	
Serial Port 0 Configuration	
Serial Port	[Enabled]
Device Settings	
Change Settings	[Auto]
Enable or Disable Serial Port (COM)	
<div>↔ Select Screen</div> <div>↔ Select Item</div> <div>Enter Select</div> <div>+/- Change Opt.</div> <div>F1 General Help</div> <div>F3 Optimized Defaults</div> <div>F4 Save &amp; Reset</div> <div>ESC Exit</div>	
Version x.xx.xxxx. Copyright© 201x, American Megatrends, Inc.	

### **Serial Port**

This item enables or disables Serial Port (COM).

Options: Enabled (Default) / Disabled

### **Change Settings**

This item selects an optimal setting for Super IO device.

Options: Auto (Default)

## CIR Controller Configuration

BIOS SETUP UTILITY	
<b>Advanced</b>	
CIR Controller Configuration	
CIR Controller	[Disabled]
Enable or Disable CIR Controller	
<div>↔ Select Screen</div> <div>↔ Select Item</div> <div>Enter Select</div> <div>+/- Change Opt.</div> <div>F1 General Help</div> <div>F3 Optimized Defaults</div> <div>F4 Save &amp; Reset</div> <div>ESC Exit</div>	
Version x.xx.xxxx. Copyright© 201x, American Megatrends, Inc.	

### **CIR Controller**

This item enables or disables CIR Controller.

Options: Disabled (Default) / Enabled

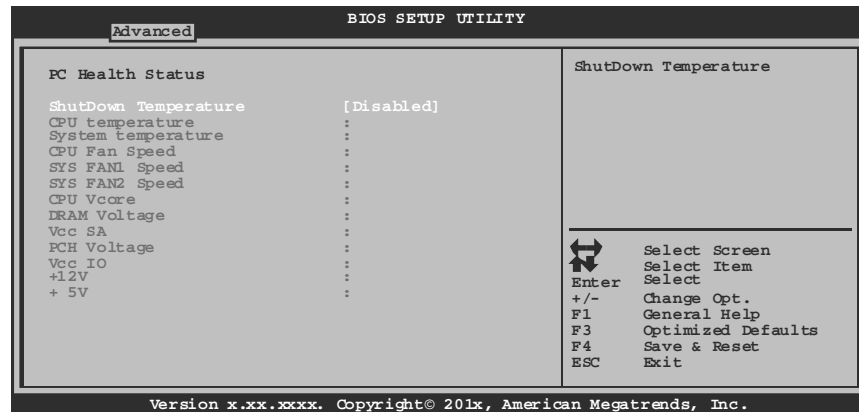
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## Change Settings

This item selects an optimal setting for Super IO device.

Options: Auto (Default)

## H/W Monitor



## Shutdown Temperature

This item allows you to set up the CPU shutdown Temperature.

Options: Disabled (Default) / 70°C/158°F / 75°C/167°F / 80°C/176°F / 85°C/185°F / 90°C/194°F



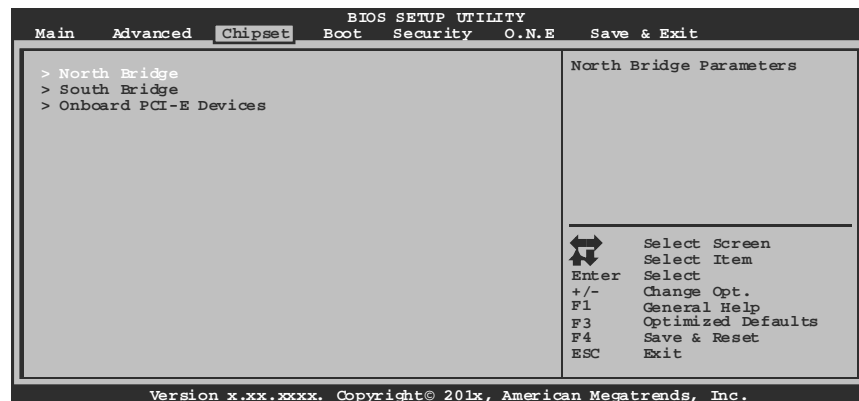
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## 3 Chipset Menu

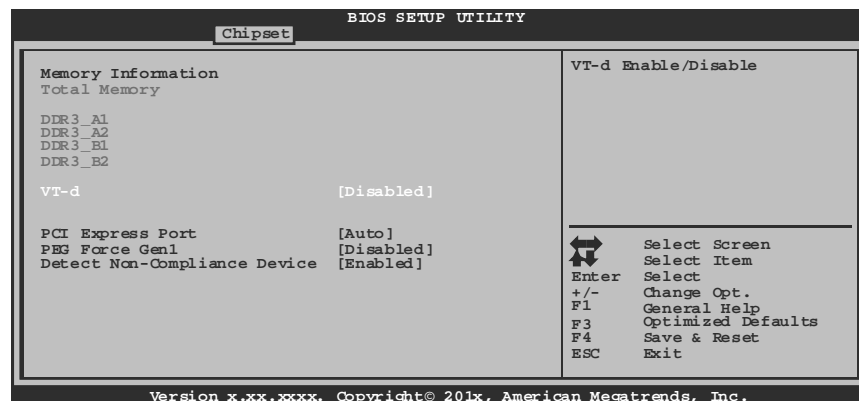
This section describes configuring the PCI bus system. PCI, or Personal Computer Interconnect, is a system which allows I/O devices to operate at speeds nearing the speed of the CPU itselfuses when communicating with its own special components.

### Notice

- Beware of that setting inappropriate values in items of this menu may cause system to malfunction.



### North Bridge



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## VT-d

This item enables/disables VT-d function.

Options: Disabled (Default) / Enabled

## PCI Express Port

This item allows user to control PCI Express x16 Port.

Options: Auto (Default) / Disabled / Enabled

## PEG Force GEN1

Some non-graphics PCI-E devices may not follow PCIe Specification and may incorrectly report their Gen capability or link width.

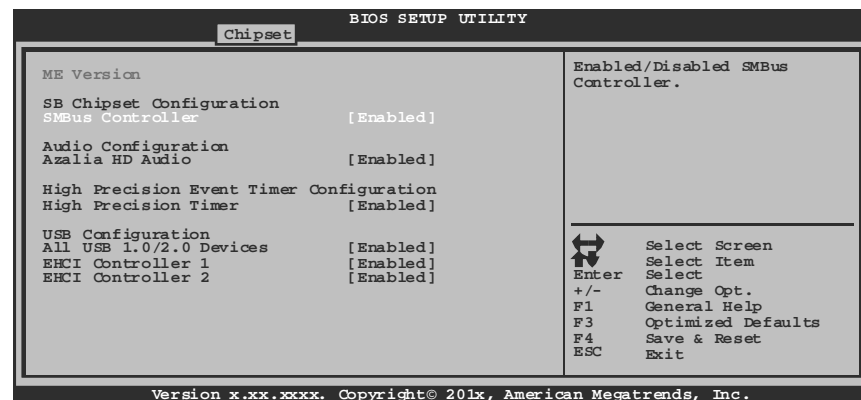
Options: Disabled (Default) / Enabled

## Detect Non-Compliance Device

Detect Non-Compliance PCI Express Device in PEG.

Options: Enabled (Default) / Disabled

## South Bridge Configuration



## SMBus Controller

This item enables/disables SMBus Controller.

Options: Enabled (Default) / Disabled

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## Azalia HD Audio

This item enables/disables Azalia HD Audio.

Options: Enabled (Default) / Disabled

## High Precision Timer

This item enables/disables the High Precision Event Timer.

Options: Enabled (Default) / Disabled

## All USB 1.0/2.0 Devices

This item enables/disables All USB 1.0/2.0 Devices.

Options: Enabled (Default) / Disabled

## EHCI Controller 1

This item enables/disables USB 2.0 (EHCI) Support.

Options: Enabled (Default) / Disabled

## EHCI Controller 2

This item enables/disables USB 2.0 (EHCI) Support.

Options: Enabled (Default) / Disabled

## Onboard PCI-E Devices



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## **Launch PXE OpROM**

This item enables/disables Boot Option for Legacy Network Devices.

Options: Disabled (Default) / Enabled

## **Launch Storage OpROM**

This item enables/disables Boot Option for Legacy Mass Storage Devices with Option ROM.

Options: Enabled (Default) / Disabled

## **Onboard PCIE Giga LAN**

This item enables/disables Onboard PCIE Giga LAN.

Options: Auto (Default) / Disabled / Enabled

## **Onboard USB3.0**

This item enables/disables Onboard USB3.0.

Options: Auto (Default) / Disabled / Enabled

## **Onboard PCI Bridge**

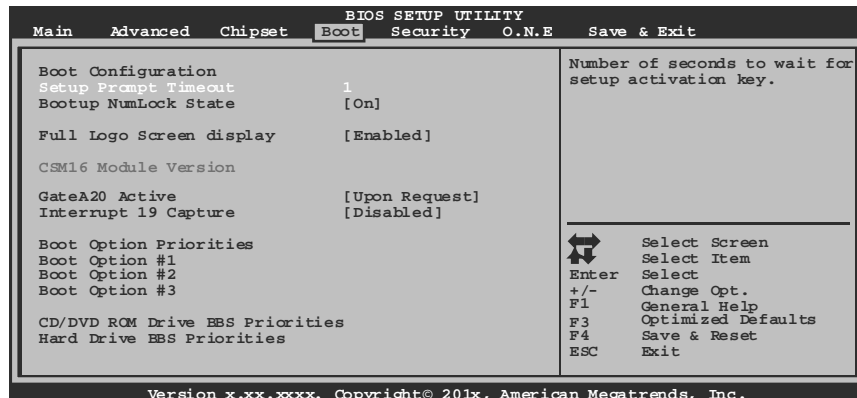
This item enables/disables Onboard PCI Bridge.

Options: Auto (Default) / Disabled / Enabled

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## 4 Boot Menu

This menu allows you to setup the system boot options.



### Setup Prompt Timeout

This item sets number of seconds to wait for setup activation key.

Options: 1 (Default)

### Bootup NumLock State

This item selects the keyboard NumLock state.

Options: On (Default) / Off

### Full Screen LOGO Display

This item allows you to enable/disable Full Screen LOGO Show function.

Options: Enabled (Default) / Disabled

### GateA20 Active

Upon Request – FA20 can be disabled using BIOS services. Always – do not allow disabling GA20; this option is useful when any RT code is executed above 1MB

Options: Upon Request (Default) / Always

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## **Interrupt 19 Capture**

Interrupt 19 is the software interrupt that handles the boot disk function. When set to Enabled, this item allows the option ROMs to trap interrupt 19.

Options: Disabled (Default) / Enabled

## **Boot Option #1/#2/#3**

The 3 items specify the boot device priority sequence from the available devices. The number of device items that appears on the screen depends on the number of devices installed in the system.

## **CD/DVD ROM Drive BBS Priorities**

This item sets the order of the legacy devices in this group.

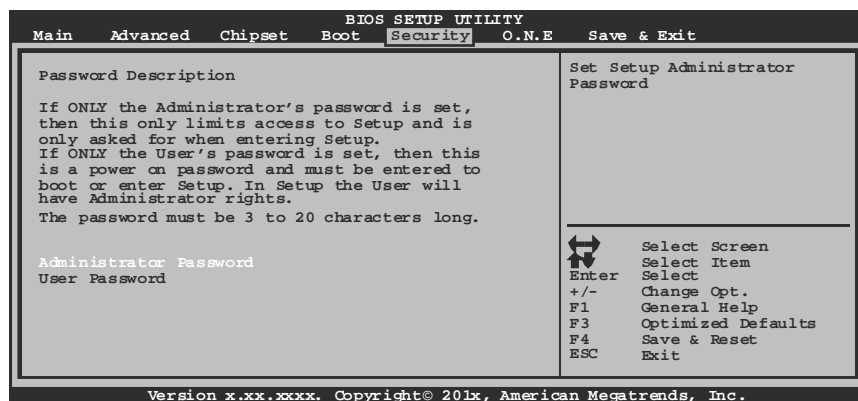
## **Hard Drive BBS Priorities**

This item sets the order of the legacy devices in this group.

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## 5 Security Menu



### Administrator Password

This item sets Administrator Password.

### User Password

This item sets User Password.

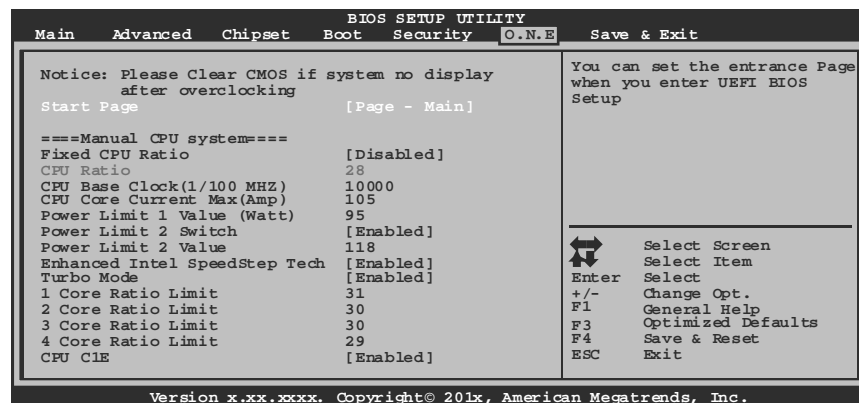
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## 6 O.N.E Menu

This submenu allows you to change voltage and clock of various devices.  
(However, we suggest you use the default setting. Changing the voltage and clock improperly may damage the device.)

### Notice

- Beware of that setting inappropriate values in items of this menu may cause system to malfunction.



### Start Page

You can set the entrance page when you enter UEFI BIOS Setup.

Options: Page – Main (Default) / Page – Advanced / Page – Chipset / Page – Boot  
/ Page – Security / Page – O.N.E / Page – Save & Exit

### Fixed CPU Ratio

This item enables/disables Fixed CPU Ratio all the time.

Options: Disabled (Default) / Enabled

### CPU Ratio

This item allows you to set the CPU ratio. This item is adjustable only when Fixed CPU Ratio is set to Enabled.

Options: 9 (Default) / 10 ~ 50



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## **CPU Base Clock (1/100 MHz)**

This item sets CPU Base Clock.

Options: 10000 (Default)

## **CPU Core Current Max (Amp)**

This item sets the Max instantaneous current allowed at any given time.

Options: 105 (Default)

## **Power Limit 1 Value (Watt)**

This item sets the power limit value which CPU must not exceed over a specific time.

Options: 95 (Default)

## **Power Limit 2 Switch**

This item enables/disables Power Limit 2 Switch.

Options: Enabled (Default) / Disabled

## **Power Limit 2 Value**

This item sets Power Limit Value which CPU must not exceed in a short duration time.

Options: 118 (Default)

## **Enhanced Intel SpeedStep Technology**

This item enables/disables Enhanced Intel SpeedStep Technology.

Options: Enabled (Default) / Disabled

## **Turbo Mode**

This item enables/disables CPU Turbo Mode.

Options: Enabled (Default) / Disabled

## **1/2/3/4 Core Ratio Limit**

These items set Core Ratio Limit.

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## **CPU C1E**

C1E is “Enhanced Halt State” function, this function helps to save power and decrease heat by lowering CPU frequency while the processor is not working.

Options: Enabled (Default) / Disabled

## **DDR3 DRAM Multiplier**

This item allows you to set DDR3 DRAM Multiplier.

Options: Auto (Default) / 10.67 / 13.33 / 16 / 18.67 / 21.33

## **DRAM Timing Control**

This item allows you to choose to manually or automatically regulate the DRAM Timing.

Options: By SPD (Default) / Manual / XMP Profile 1 / XMP Profile 2

## **DRAM Command Rate**

This item allows you to select command rate of DDR3.

Options: Auto (Default) / 1T / 2T

## **CAS# Latency (tCL)**

This item allows you to select CAS Latency of DDR3.

Options: 9 (Default) / 3 ~ 15

## **Row Precharge Time (tRP)**

This item allows you to select Row Precharge Time of DDR3.

Options: 9 (Default) / 3 ~ 15

## **RAS# to CAS# Delay (tRCD)**

This item allows you to select Row Address to Column Address Delay of DDR3.

Options: 9 (Default) / 3 ~ 15

## **RAS# Active Time (tRAS)**

This item allows you to select Row Active Time of DDR3.

Options: 24 (Default) / 9 ~ 63

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### **Write Recovery Time (tWR)**

This item allows you to select Internal Write to Read Command Delay of DDR3.

Options: 10 (Default) / 3 ~ 31

### **Row Refresh Cycle Time (tRFC)**

This item allows you to select Minimum Refresh Recovery Time of DDR3.

Options: 74 (Default) / 15 ~ 255

### **Write to Read Delay (tWTR)**

This item allows you to select Internal Write to Read Command Delay of DDR3.

Options: 5 (Default) / 3 ~ 31

### **Active to Active Delay (tRRD)**

This item allows you to select Row Active to Row Active Delay of DDR3.

Options: 4 (Default) / 4 ~ 15

### **Read CAS# Precharge (tRTP)**

This item allows you to select Read to Precharge Delay of DDR3.

Options: 5 (Default) / 4 ~ 15

### **Four Active Window Delay (tFAW)**

This item allows you to select Four Active Window Delay of DDR3.

Options: 20 (Default) / 4 ~ 63

### **CPU VCore Mode**

This item sets the mode of CPU over voltage.

Options: SPEC Voltage (Default) / Auto / Offset Mode / Fixed Mode

### **CPU VCore Offset**

This item sets CPU Vcore Offset Voltage.

### **CPU VCore Fixed**

This item sets CPU Vcore Fixed Voltage.

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## **CPU Request Vcore**

This item sets CPU Request Vcore.

## **Phase Control**

This item sets PWM Phase Control method.

Options: CPU Power State (Default) / Full On

## **PWM Work Frequency**

This item sets PWM Work Frequency.

Options: Auto (Default) / 200 KHz / 185 KHz / 165 KHz / 145 KHz

## **PWM I-OUT Override**

This item enables/disables PWM I-OUT Override.

Options: Disabled (Default) / Enabled

## **PWM Thermal Override**

This item enables/disables PWM Thermal Override.

Options: Disabled (Default) / Enabled

## **CPU VCore LoadLine**

This item sets VCore LoadLine.

Options: Enabled (Default) / Disabled / 87.5% LoadLine / 75.0% LoadLine / 62.5% LoadLine / 50.0% LoadLine / 37.5% LoadLine / 25.0% LoadLine / 12.5% LoadLine

## **CPU PLL**

This item sets CPU PLL power supply.

## **DRAM Voltage**

This item sets DRAM Voltage.

## **Vcc SA**

This item sets CPU System Agent (memory controller, DMI, PCIe controllers, and display engine) power supply.

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## PCH Voltage

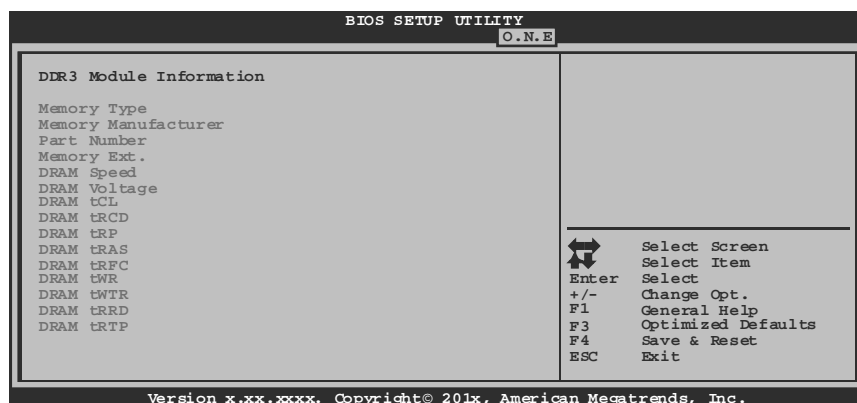
This item sets PCH Voltage.

## Vcc IO

This item sets CPU High frequency I/O logic power supply.

## DDR3 Slot 1/2/3/4 Information

These items display SPD information of DDR3 memory.



# TP67B+ UEFI BIOS Manual

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## 7 Exit Menu

This menu allows you to load the optimal default settings, and save or discard the changes to the BIOS items.



### Discard Changes and Exit

Abandon all changes made during the current session and exit setup.

### Save Changes and Reset

Reset the system after saving the changes.

### Restore Defaults

This selection allows you to reload the BIOS when problem occurs during system booting sequence. These configurations are factory settings optimized for this system.

### Built-in EFI Shell

Press enter to execute UEFI BIOS built-in EFI Shell..