

TG31-A7 BIOS Manual

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BIOS Setup

Introduction

The purpose of this manual is to describe the settings in the AMI BIOS Setup program on this motherboard. The Setup program allows users to modify the basic system configuration and save these settings to CMOS RAM. The power of CMOS RAM is supplied by a battery so that it retains the Setup information when the power is turned off.

Basic Input-Output System (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 BIOS.

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

Plug and Play Support

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

EPA Green PC Support

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

APM Support

This AMI BIOS supports Version 1.1&1.2 of the Advanced Power Management (APM) specification. Power management features are implemented via the System Management Interrupt (SMI). Sleep and Suspend power management modes are supported. Power to the hard disk drives and video monitors can also be managed by this AMI BIOS.

ACPI Support

AMI ACPI 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.

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PCI Bus Support

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

DRAM Support

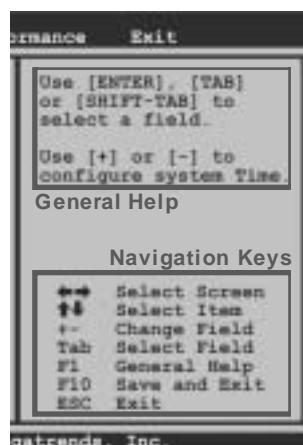
DDR2 SDRAM (Double Data Rate II Synchronous DRAM) is supported.

Supported CPUs

This AMI BIOS supports the Intel CPU.

Using Setup

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



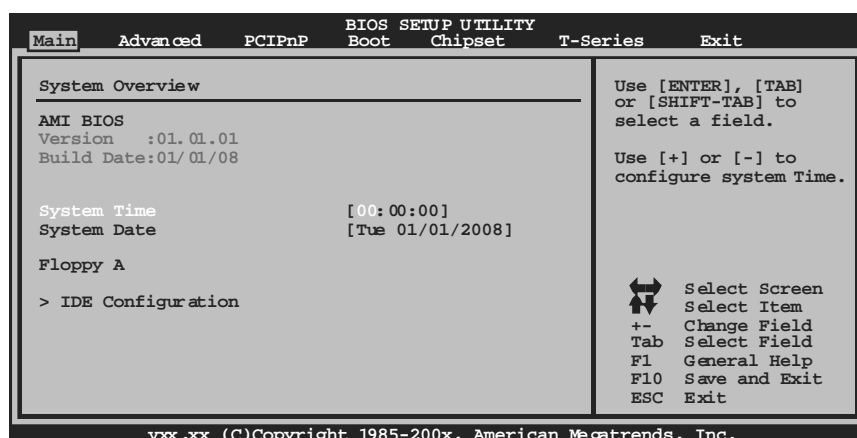
Notice

- The default 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 BIOS firmware is being continuously updated. The BIOS information described in this manual is for your reference only. The actual 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 BIOS Setup Utility, the Main Menu will appear on the screen providing an overview of the basic system information.



AMI BIOS

Shows system information including BIOS version, built date, etc.

System Time

Set the system internal clock.

System Date

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

Floppy A

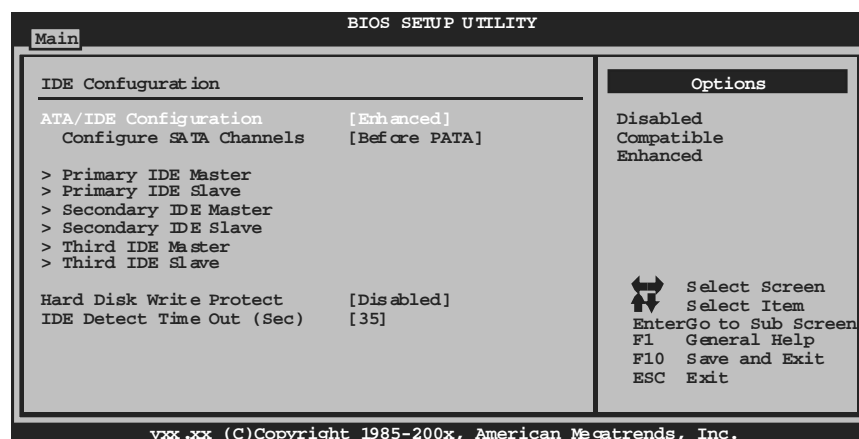
Select the type of floppy disk drive installed in your system.

Options: 360K, 5.25 in / 1.2M, 5.25 in / 720K, 3.5 in / 1.44M, 3.5 in / 2.88M, 3.5 in / None

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IDE Configuration

The BIOS will automatically detect the presence of IDE/SATA devices. There is a sub-menu for each IDE/SATA device. Select a device and press <Enter> to enter the sub-menu of detailed options.



ATA/IDE Configuration

This item allows you to control the onboard IDE controller.

Options: Enhanced (Default) / Compatible / Disabled

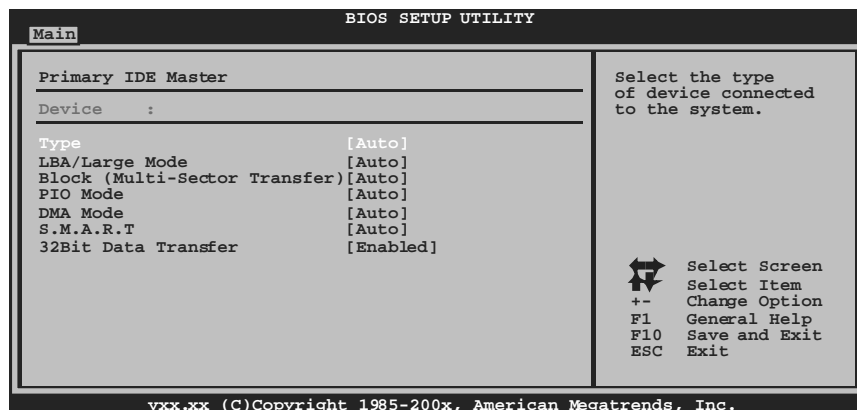
Configure SATA Channels

This item allows you to control the SATA channel configuration sequence..

Options: Before PATA (Default)

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Primary/Secondary/Third IDE Master/Slave



The BIOS detects the information and values of respective devices, and these information and values are shown below to the name of the sub-menu.

Type

Select the type of the IDE/SATA drive.

Options: Auto (Default) / CDROM / ARMD / Not Installed

LBA/Large Mode

Enable or disable the LBA mode.

Options: Auto (Default) / Disabled

Block (MultiSector Transfer)

Enable or disable multi-sector transfer.

Options: Auto (Default) / Disabled

PIO Mode

Select the PIO mode.

Options: Auto (Default) / 0 / 1 / 2 / 3 / 4

DMA Mode

Select the DMA mode.

Options: Auto (Default) / Disabled

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S.M.A.R.T

Set the Smart Monitoring, Analysis, and Reporting Technology.

Options: Auto (Default) / Disabled / Enabled

32Bit Data Transfer

Enable or disable 32-bit data transfer.

Options: Enabled (Default) / Disabled

Hard Disk Write Protect

Disable or enable device write protection. This will be effective only if the device is accessed through BIOS.

Options: Disabled (Default) / Enabled

IDE Detect Time Out (Sec)

Select the time out value for detecting IDE/SATA devices.

Options: 35 (Default) / 30 / 25 / 20 / 15 / 10 / 5 / 0

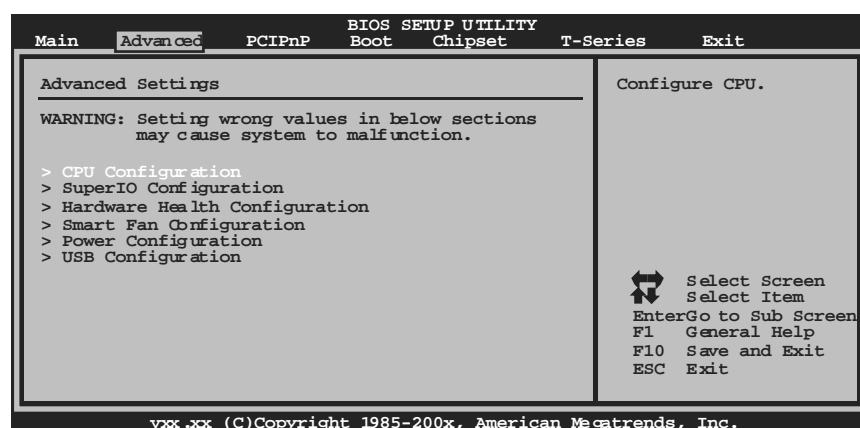
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2 Advanced Menu

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

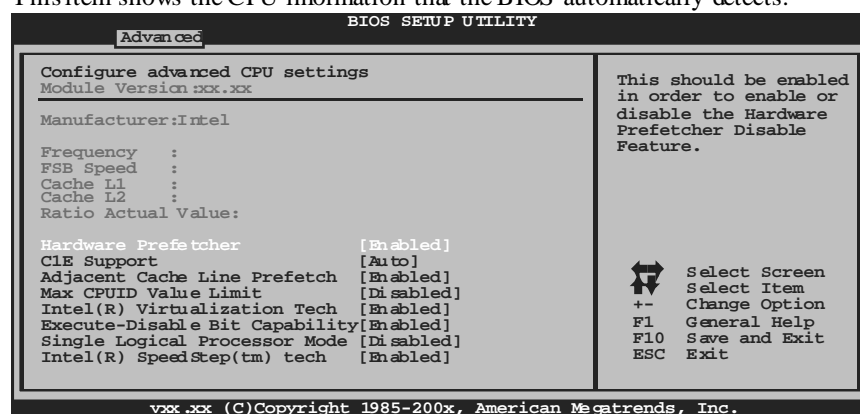
Notice

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



CPU Configuration

This item shows the CPU information that the BIOS automatically detects.



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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

C1E Support

This item allows you to configure the Enhanced Halt State (C1E) function, which may reduce the power consumption of your system when the system is idle.

Options: Auto (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

Max CPUID Value Limit

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

Intel(R) 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: Enabled (Default) / Disabled

Execute-Disable Bit Capability

This item allows you to configure the Execute Disabled Bit function, which protects your system from buffer overflow attacks.

Options: Enabled (Default) / Disabled

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Single Logical Processor Mode

This item controls multi-processing function for multi-core processors.

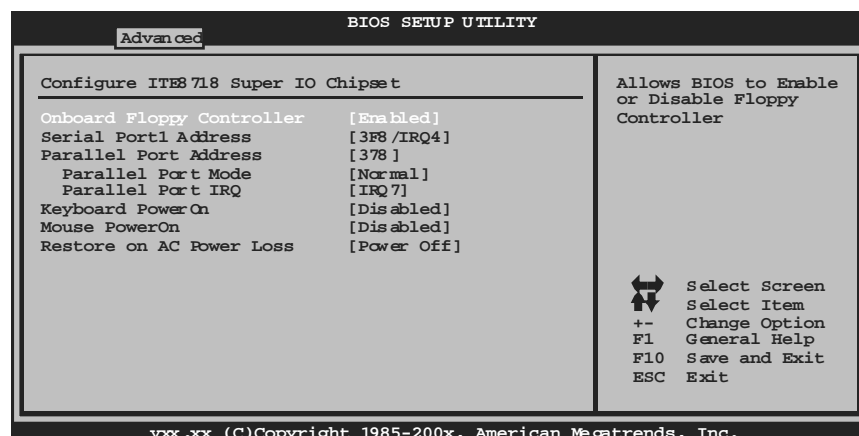
Options: Disabled (Default) / Enabled

Intel(R) SpeedStep(tm) Tech

This item allows you to enable SpeedStep technology for better power saving. SpeedStep is a technology built into some Intel processors that allows the clock speed of the processor to be dynamically changed by software.

Options: Enabled (Default) / Disabled

SuperIO Configuration



Onboard Floppy Controller

Select enabled if your system has a floppy disk controller (FDC) installed on the system board and you wish to use it. If you installed another FDC or the system uses no floppy drive, select disabled in this field.

Options: Enabled (Default) / Disabled

Serial Port1 Address

Select an address and corresponding interrupt for the first and second serial ports.

Options: 3F8/IRQ4 (Default) / 2F8/IRQ3 / 3E8/IRQ4 / 2E8/IRQ3 / Auto / Disabled

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Parallel Port Address

This item allows you to determine access onboard parallel port controller with which I/O Address.

Options: 378 (Default) / 278 / 3BC / Disabled

Parallel Port Mode

This item allows you to determine how the parallel port should function.

Options: Normal (Default)	Using Parallel port as Standard Printer Port.
EPP	Using Parallel Port as Enhanced Parallel Port.
ECP	Using Parallel port as Extended Capabilities Port.
ECP+EPP	Using Parallel port as ECP & EPP mode.

Parallel Port IRQ

This item allows you to select the IRQ for the onboard parallel port.

Options: IRQ7 (Default) / IRQ5 / Disabled

Keyboard PowerOn

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

Options: Disabled (Default) / Enabled

Mouse PowerOn

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

Options: Disabled (Default) / Enabled

Restore on AC Power Loss

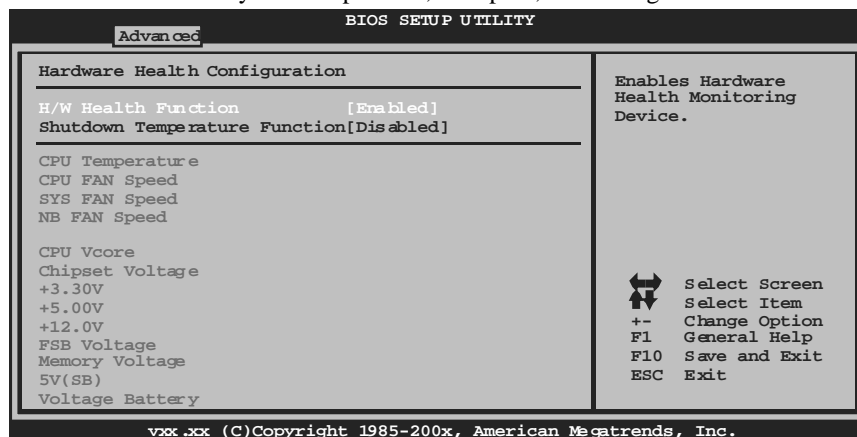
This setting specifies how your system should behave after a power fail or interrupts occurs. By choosing Disabled will leave the computer in the power off state. Choosing Enabled will restore the system to the status before power failure or interrupt occurs.

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

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Hardware Health Configuration

This item shows the system temperature, fan speed, and voltage information.



H/W Health Function

If your computer contains a monitoring system, it will show PC health status during POST stage.

Options: Enabled (Default) / Disabled

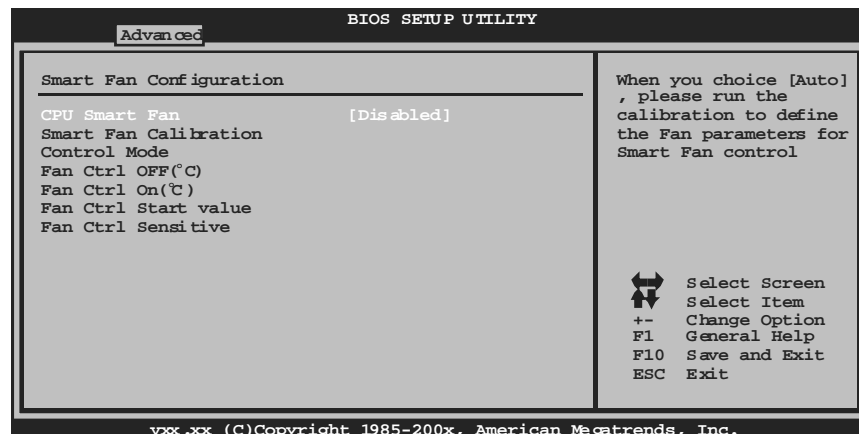
Shutdown Temperature Function

This item allows you to set up the CPU shutdown Temperature. This item is only effective under Windows 98 ACPI mode.

Options: Disabled (Default) / 60°C/140°F / 65°C/149°F / 70°C/158°F / 75°C/167°F / 80°C/176°F / 85°C/185°F / 90°C/194°F

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Smart Fan Configuration



CPU Smart Fan

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

Options: Disabled (default) / Auto

Smart Fan Calibration

Choose this item and then the BIOS will auto test and detect the CPU/System fan functions and show CPU/System fan speed.

Control Mode

This item provides several operation modes of the fan.

Options: Quiet / Performance / Manual

Fan Ctrl OFF(°C)

If the CPU/System Temperature is lower than the set value, FAN will turn off.

Options: 0~127 (°C)

Fan Ctrl On(°C)

CPU/System fan starts to work under smart fan function when arrive this set value.

Options: 0~127 (°C)

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Fan Ctrl Start Value

When CPU/System temperature arrives to the set value, the CPU/System fan will work under Smart Fan Function mode.

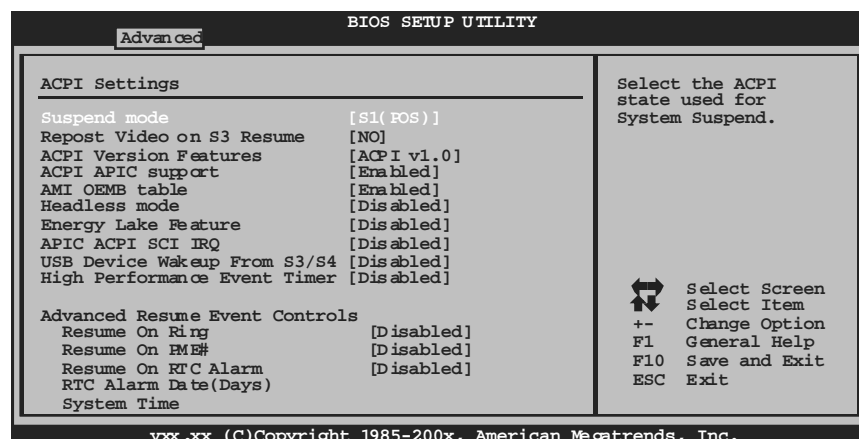
Options: 0~127 (°C)

Fan Ctrl Sensitive

Increasing the value will raise the speed of CPU/System fan.

Options: 1~127

Power Configuration



Suspend mode

The item allows you to select the suspend type under the ACPI operating system.

Options: S1 (POS) (Default) Power on Suspend
S3 (STR) Suspend to RAM
Auto POS+STR

Repost Video on S3 Resume

Options: NO (Default) / YES

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ACPI Version Features

The item allows you to select the version of ACPI.

Options: ACPI v1.0 (Default) / ACPI v2.0 / ACPI v3.0

ACPI APIC support

This item is used to enable or disable the motherboard's APIC (Advanced Programmable Interrupt Controller). The APIC provides multiprocessor support, more IRQs and faster interrupt handling.

Options: Enabled (Default) / Disabled

AMI OEMB table

Set this value to allow the ACPI BIOS to add a pointer to an OEMB table in the Root System Description Table (RSDT) table.

Options: Enabled (Default) / Disabled

Headless mode

This is a server-specific feature. A headless server is one that operates without a keyboard, monitor or mouse. To run in headless mode, both BIOS and operating system (e.g. Windows Server 2003) must support headless operation.

Options: Disabled (Default) / Enabled

Energy Lake Feature

This item allows you to control the energy lake feature.

Options: Disabled (Default) / Enabled

APIC ACPI SCI IRQ

Options: Disabled (Default) / Enabled

USB Device Wakeup from S3/S4

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

Options: Disabled (Default) / Enabled

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High Performance Event Timer

This item allows you to enable or disabled the HPET.

Options: Disabled (Default) / Enabled

Resume On Ring

This item allows you control the wake on ring function.

Options: Disabled (Default) / Enabled

Resume On PME#

When you select Enabled, a PME signal from PCI card returns the system to Full ON state.

For this function to work, you may need a LAN add-on card which supports the Wake on LAN function. Set the Wake on LAN (WOL) jumper on motherboard to enable if applicable.

Options: Disabled (Default) / Enabled

Resume On RTC Alarm

When “Enabled”, you can set the date and time at which the RTC (real-time clock) alarm awakens the system from Suspend mode.

Options: Disabled (Default) / Enabled

RTC Alarm Date (Days)

You can choose which date the system will boot up.

System Time

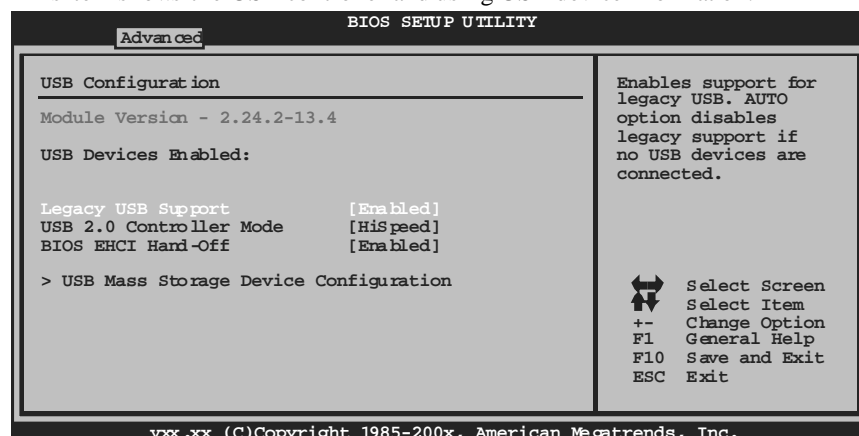
You can choose the system boot up time, input hour, minute and second to specify.

Note: If you have change the setting, you must let the system boot up until it goes to the operating system, before this function will work.

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USB Configuration

This item shows the USB controller and using USB device information.



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

USB 2.0 Controller Mode

This item allows you to select the operation mode of the USB 2.0 controller.

Options: HiSpeed (Default) USB 2.0-480Mbps
FullSpeed USB 1.1-12Mbps


BIOS EHCI Hand-Off

This item allows you to enable support for operating systems without an EHCI hand-off feature.

Options: Enabled (Default) / Disabled

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USB Mass Storage Device Configuration

BIOS SETUP UTILITY	
Advanced	
USB Mass Storage Device Configuration	
USB Mass Storage Reset Delay [20 Sec]	
Device #	
Emulation Type	[Auto]
Number of seconds POST waits for the USB mass storage device after start unit command.	
	
Select Screen	
Select Item	
+- Change Option	
F1 General Help	
F10 Save and Exit	
ESC Exit	
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USB Mass Storage Reset Delay

This item allows you to set the reset delay for USB mass storage device.

Options: 20 Sec (Default) / 10 Sec / 30 Sec / 40 Sec

Emulation Type

This item allows you to select the emulation type of the USB mass storage device.

Options: Auto (Default) / Floppy / Forced FDD / Hard Disk / CDROM

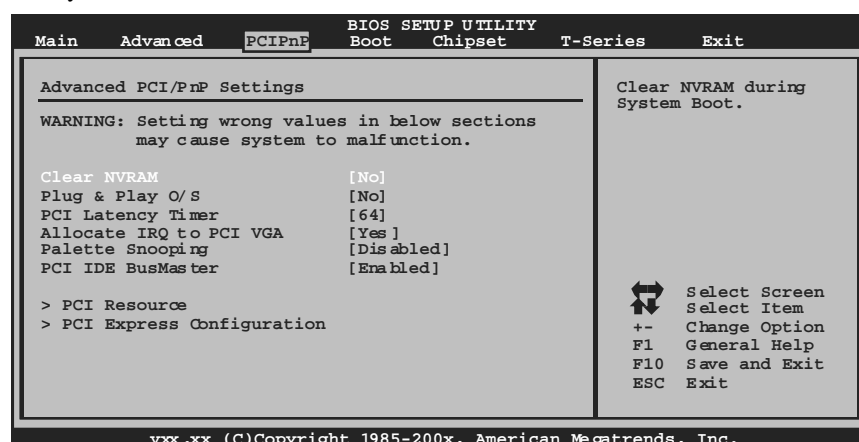
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3 PCIPnP Menu

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.



Clear NVRAM

This item allows you to clear the data in the NVRAM (CMOS) by selecting “Yes”.

Options: No (Default) / Yes

Plug & Play OS

When set to YES, BIOS will only initialize the PnP cards used for the boot sequence (VGA, IDE, SCSI). The rest of the cards will be initialized by the PnP operating system like Window™ 95. When set to NO, BIOS will initialize all the PnP cards. For non-PnP operating systems (DOS, Netware™), this option must set to NO.

Options: No (Default) / Yes

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PCI Latency Timer

This item controls how long a PCI device can hold the PCI bus before another takes over. The longer the latency, the longer the PCI device can retain control of the bus before handing it over to another PCI device.

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

Allocate IRQ to PCI VGA

This item allows BIOS to choose a IRQ to assign for the PCI VGA card.

Options: Yes (Default) / No

Palette Snooping

Some old graphic controllers need to “snoop” on the VGA palette and then map it to their display as a way to provide boot information and VGA compatibility. This item allows such snooping to take place.

Options: Disabled (Default) / Enabled

PCI IDE BusMaster

This item is a toggle for the built-in driver that allows the onboard IDE controller to perform DMA (Direct Memory Access) transfers.


Options: Enabled (Default) / Disabled


PCI Resource

BIOS SETUP UTILITY	
PCIPnP	
PCI Resource	
IRQ3	[Available]
IRQ4	[Available]
IRQ5	[Available]
IRQ7	[Available]
IRQ9	[Available]
IRQ10	[Available]
IRQ11	[Available]
IRQ14	[Available]
IRQ15	[Available]
DMA Channel 0	[Available]
DMA Channel 1	[Available]
DMA Channel 3	[Available]
DMA Channel 5	[Available]
DMA Channel 6	[Available]
DMA Channel 7	[Available]

Available: Specified IRQ is available to be used by PCI/PnP devices.

Reserved: Specified IRQ is reserved for use by Legacy ISA devices.

 Select Screen

 Select Item

+ - Change Option

F1 General Help

F10 Save and Exit

ESC Exit

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IRQ3/4/5/7/9/10/11/14/15

These items will allow you to assign each system interrupt a type, depending on the type of device using the interrupt. The option “Available” means the IRQ is going to assign automatically.

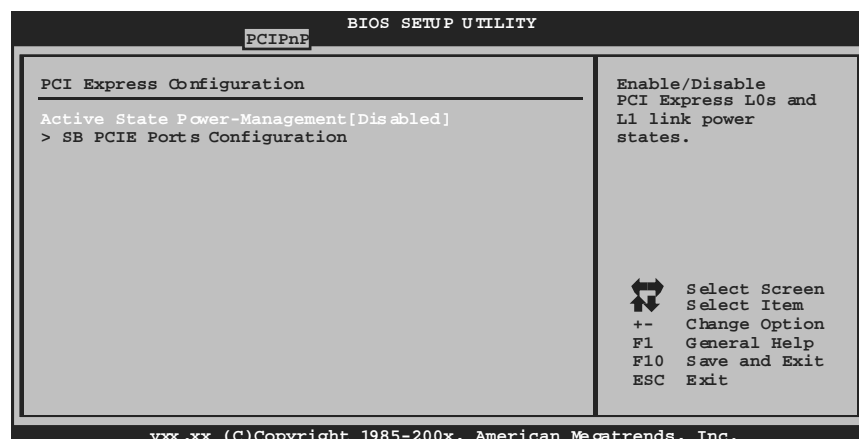
Options: Available (Default) / Reserved

DMA Channel 0/1/3/5/6/7

These items will allow you to assign each DMA channel a type, depending on the type of device using the channel. The option “Available” means the channel is going to assign automatically.

Options: Available (Default) / Reserved

PCI Express Configuration



Active State Power-Management

This item sets the ASPM configuration for the PCI Express devices before the operating system boots. This function is for OS which does not support ASPM.

Options: Disabled (Default) / Enabled

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SB PCIE Ports Configuration

BIOS SETUP UTILITY	
PCIPnP	
PCIE Ports Configuration	
PCIE Port 0	[Auto]
PCIE Port 1	[Auto]
PCIE Port 2	[Auto]
PCIE Port 3	[Auto]
PCIE Port 4	[Auto]
PCIE Port 5	[Auto]
PCIE High Priority Port	[Disabled]
PCIE Port 0 IOxAPIC Enable	[Disabled]
PCIE Port 1 IOxAPIC Enable	[Disabled]
PCIE Port 2 IOxAPIC Enable	[Disabled]
PCIE Port 3 IOxAPIC Enable	[Disabled]
PCIE Port 4 IOxAPIC Enable	[Disabled]
PCIE Port 5 IOxAPIC Enable	[Disabled]
Options	
Auto	
Enabled	
Disabled	
Select Screen	
Select Item	
+- Change Option	
F1 General Help	
F10 Save and Exit	
ESC Exit	

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PCIE Port 0/1/2/3/4/5

Options: Auto (Default) / Enabled / Disabled

PCIE High Priority Port

Options: Disabled (Default) / Enabled

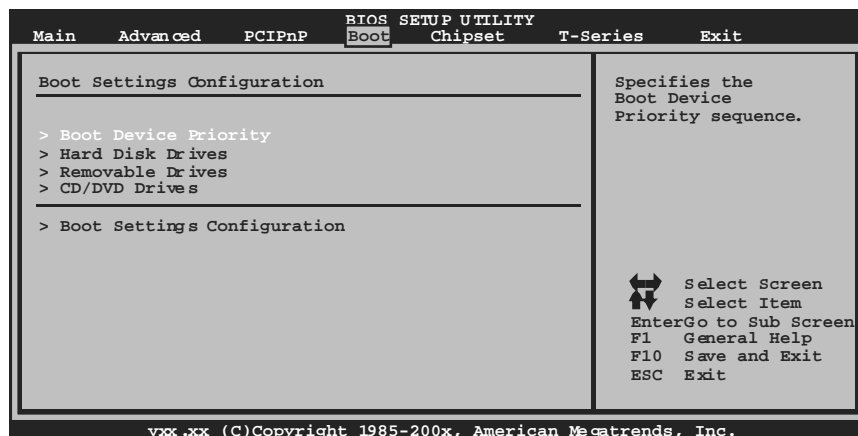
PCIE Port 0/1/2/3/4/5 IOxAPIC Enable

Options: Disabled (Default) / Enabled

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4 Boot Menu

This menu allows you to setup the system boot options.



Boot Device Priority

Items in this sub-menu 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.

Hard Disk Drives

The BIOS will attempt to arrange the hard disk boot sequence automatically. You can also change the booting sequence. The number of device items that appears on the screen depends on the number of devices installed in the system.

Removable Drives

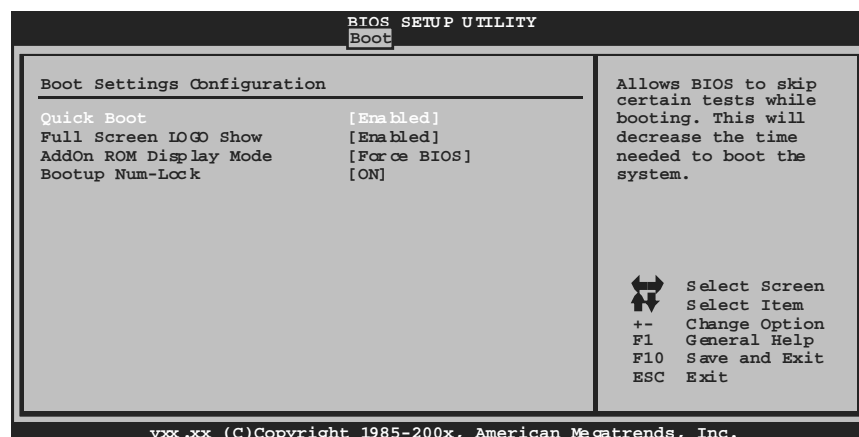
The BIOS will attempt to arrange the removable drive boot sequence automatically. You can also change the booting sequence. The number of device items that appears on the screen depends on the number of devices installed in the system.

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CD/DVD Drives

The BIOS will attempt to arrange the CD/DVD drive boot sequence automatically. You can also change the booting sequence. The number of device items that appears on the screen depends on the number of devices installed in the system.

Boot Settings Configuration



Quick Boot

Enabling this option will cause an abridged version of the Power On Self-Test (POST) to execute after you power up the computer.

Options: Enabled (Default) / Disabled

Full Screen LOGO Show

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

Options: Enabled (Default) / Disabled

AddOn ROM Display Mode

This item sets the display mode for option ROM.

Options: Force BIOS (Default) / Keep Current

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Bootup Num-Lock

Selects the NumLock State after the system switched on.

Options: ON (Default) / OFF

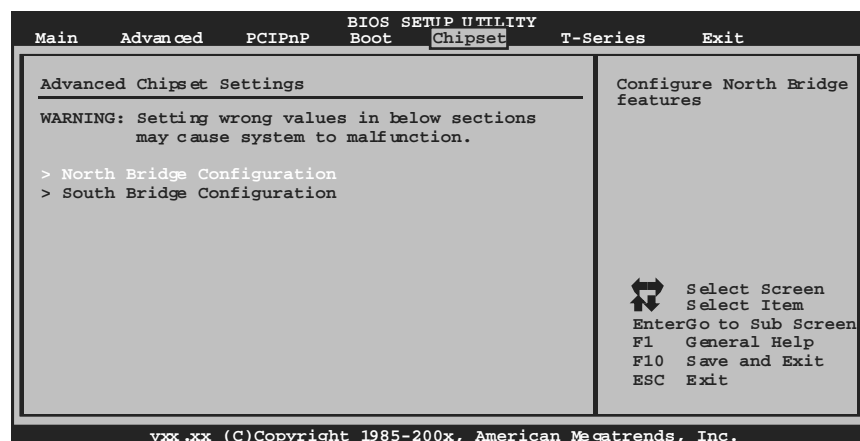
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5 Chipset Menu

This submenu allows you to configure the specific features of the chipset installed on your system. This chipset manage bus speeds and access to system memory resources, such as DRAM. It also coordinates communications with the PCI bus.

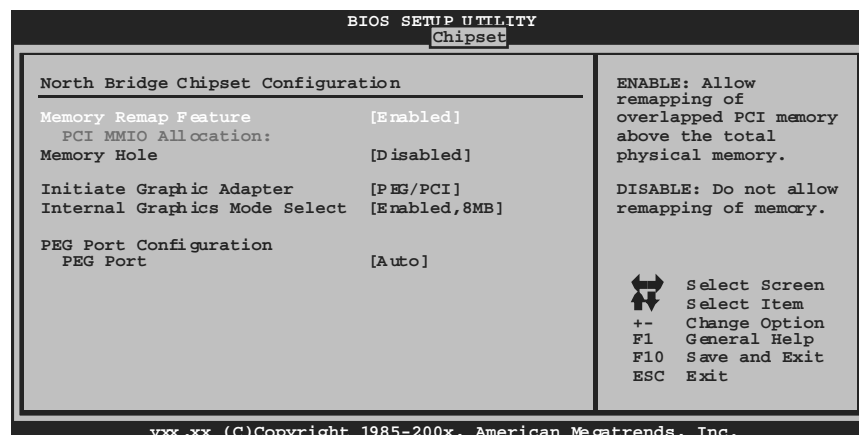
Notice

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



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North Bridge Configuration



Memory Remap Feature

This item allows you to enable or disable the remapping of the overlapped PCI memory above the total physical memory. Only 64-bit OS supports this function.

Options: Enabled (Default) / Disabled

Memory Hole

You can reserve this area of system memory for ISA adapter ROM. When this area is reserved it cannot be cached. Check the user information of peripherals that need to use this area of system memory for the memory requirements.

Options: Disabled (Default) / Enabled

Initiate Graphic Adapter

This item allows you to enable or disable VGA controller.

Options: PEG/PCI (Default) / PEG / PCI

Internal Graphics Mode Select

This item will be different as your memory modules. When the memory size is decided, this frame buffer size will also be fixed.

Options: Enabled,8MB (Default) / Enabled,1MB / Disabled

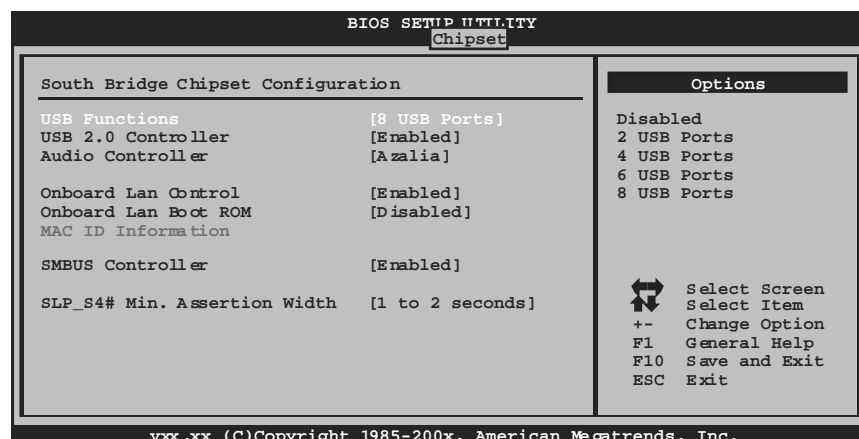
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PEG Port

This BIOS feature is a toggle that enables or disables the PCI Express port.

Options: Auto (Default) / Disabled

South Bridge Configuration



USB Functions

The item determines the number of functional USB port.

Options: 8 USB Ports (Default) / 6 USB Ports / 4 USB Ports / 2 USB Ports / Disabled

USB 2.0 Controller

This entry is to enable/disable EHCI controller only. This Bios itself may/may not have high speed USB support. If the Bios has high speed USB support built in, the support will be automatically turn on when high speed device were attached.

Options: Enabled (Default) / Disabled

Audio Controller

This item allows you to select the Audio support.

Options: Azalia (Default) / Disabled

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Onboard Lan Control

This item allows you to enable or disable the Onboard LAN.

Options: Enabled (Default) / Disabled

Onboard Lan Boot Rom

This item allows you to select the Onboard LAN Boot ROM.

Options: Disabled (Default) / Enabled

MAC ID Information

This item shows the LAN MAC ID.

SMBUS Controller

This BIOS feature controls the I/O buffers for the SMBus.

Options: Enabled (Default) / Disabled

SLP_S4# Min. Assertion Width

Options: 1 to 2 seconds (Default)

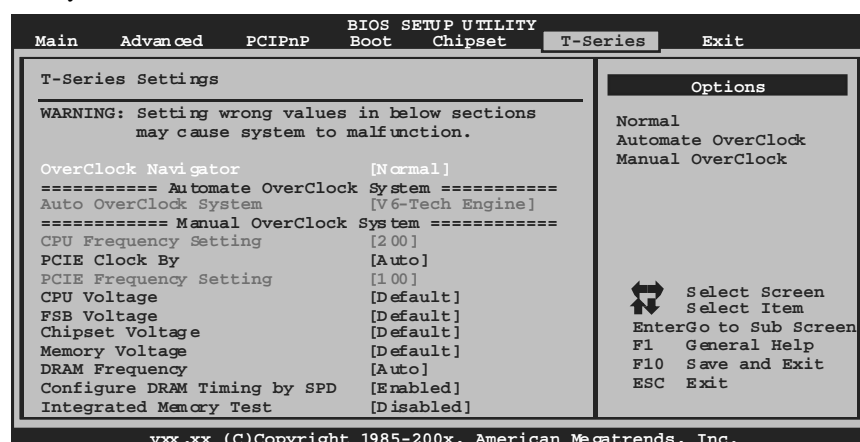
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6 T-Series Menu

This submenu allows you to change voltage and clock of various devices.
(However, we suggest you to 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.



OverClock Navigator

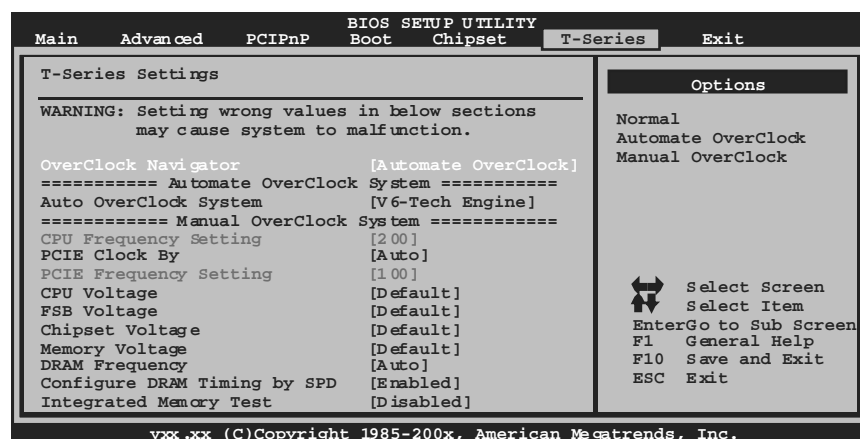
OverClock Navigator is designed for beginners in overclock field.

Based on many test and experiments from Biostar Engineer Team, OverClock Navigator provides 3 default overclock configurations that are able to raise the system performance.

Options: Normal (Default) / Automate OverClock / Manual OverClock

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Auto OverClock System



The Overclock Navigator provides 3 different engines helping you to overclock your system. These engines will boost your system performance to different level.

Options:

V6 Tech Engine

This engine will make a good over-clock performance.

V8 Tech Engine

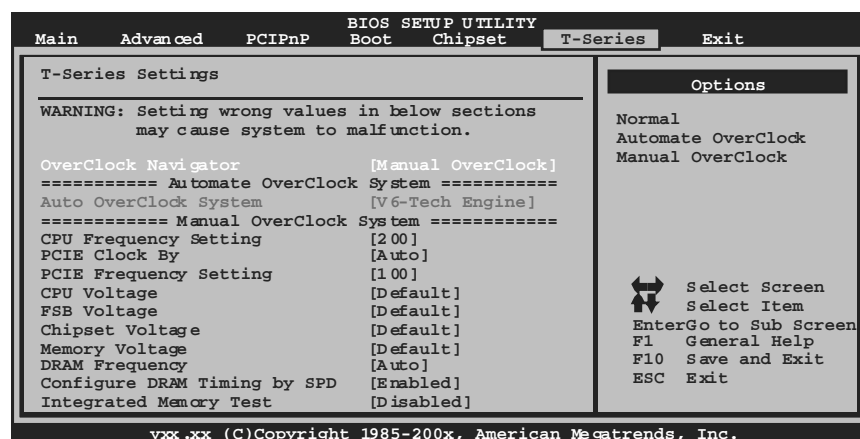
This engine will make a better over-clock performance.

V12 Tech Engine

This engine will make a best over-clock performance.

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Manual Overclock System (M.O.S.)



MOS is designed for experienced overclock users.
It allows users to customize personal overclock setting.

CPU Frequency Setting

This item allows you to select the CPU Frequency.
Options: 200 (MHz) (Default) / Min= 200; Max= 600

PCIE Clock By

This item allows you to select the PCIE dock control
Options: Auto (Default) / Fixed 100 / Manual

PCIE Frequency Setting

This item allows you to select the PCIE dock control
Options: 100 (Default) / Min=100; Max=200

CPU Voltage

This item allows you to select CPU Voltage Control.
Options: Default (Default) / +0.1V / +0.2V / +0.3V

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FSB Voltage

This item allows you to select FSB Voltage Control.

Options: Default (Default) / +0.1V / +0.2V / +0.3V

Chipset Voltage

This item allows you to select chipset Voltage Control.

Options: Default (Default) / +0.1V / +0.2V / +0.3V

Memory Voltage

This item allows you to select memory Voltage Control.

Options: Default (Default) / +0.1V / +0.2V / +0.3V

DRAM Frequency

This item allows you to control the Memory Clock.

Options: Auto (Default) / Limit

Configure DRAM Timing by SPD

Options: Enabled (Default) / Disabled

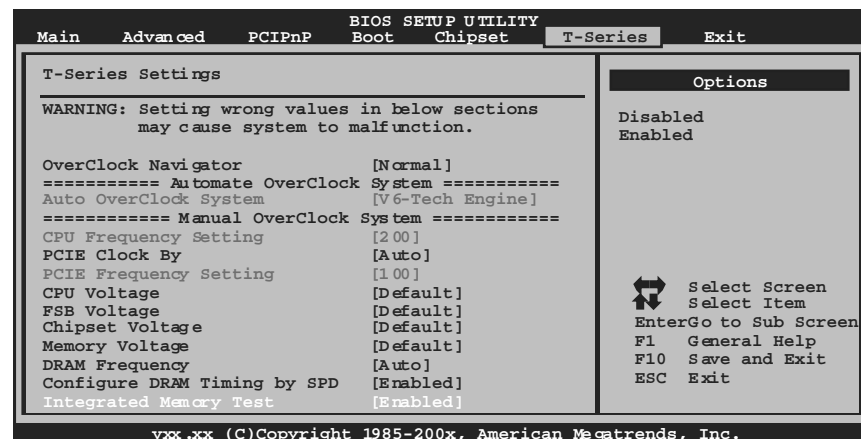
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Integrated Memory Test

Integrated Memory Test allows users to test memory module compatibilities without additional device or software.

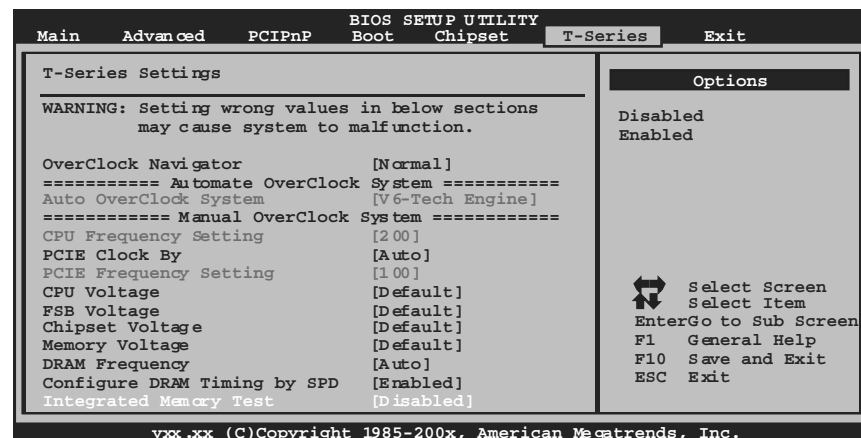
Step 1:

This item is disabled on default; change it to “Enable” to precede memory test.



Step 2:

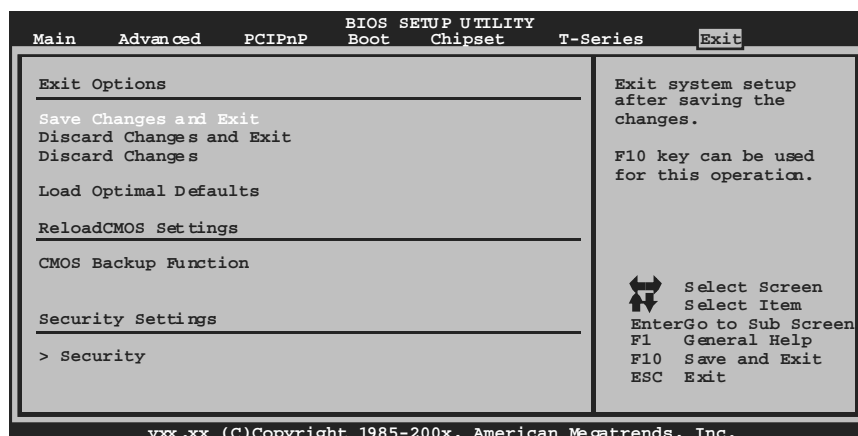
When the process is done, change the setting back from “Enabled” to “Disabled” to complete the test.



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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.



Save Changes and Exit

Save all configuration changes to CMOS RAM and exit setup.

Discard Changes and Exit

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

Discard Changes

Abandon all changes made during the current session and restore the previously saved values.

Load Optimal 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.

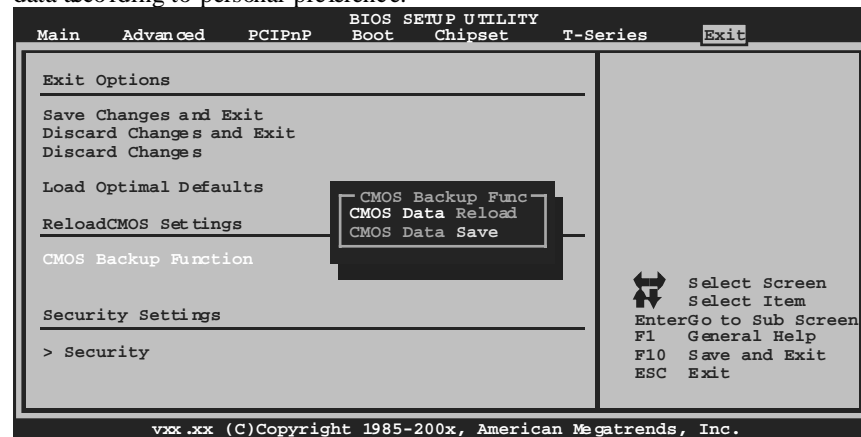
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CMOS Backup Function

It allows users to save different CMOS settings into BIOS-ROM and reload any saved CMOS setting for customizing system configurations.

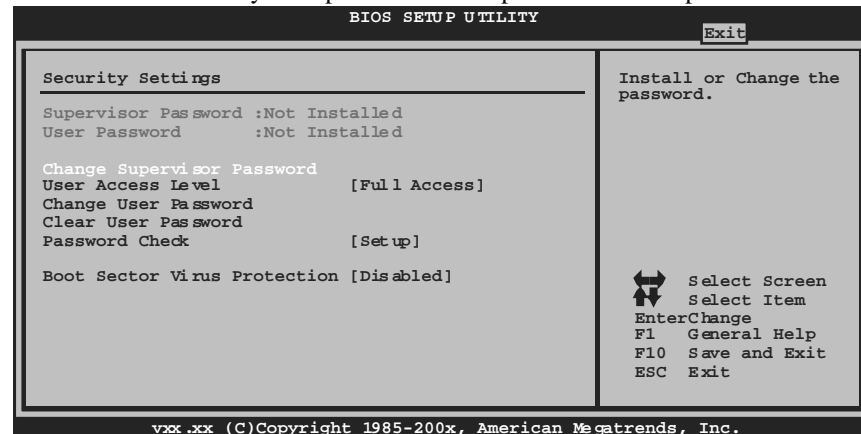
Moreover, users are able to save an ideal overclock setting during overclock operation.

There are 10 sets of record addresses in total, and users are able to name the CMOS data according to personal preference.



Security

This sub-menu allows you to provide/revise supervisor and user password.



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Change Supervisor Password

Setting the supervisor password will prohibit everyone except the supervisor from making changes using the CMOS Setup Utility. You will be prompted with to enter a password.

User Access Level

This item allows supervisor to set the user level.

Options: Full Access (Default) / No Access / View Only / Limited

Change User Password

If the Supervisor Password is not set, then the User Password will function in the same way as the Supervisor Password. If the Supervisor Password is set and the User Password is set, the "User" will only be able to view configurations but will not be able to change them.

Clear User Password

This item is for clearing user password.

Password Check

This item is for setting the timing that checking password.

Options: Setup (Default) / Always

Boot Sector Virus Protection

This option allows you to choose the VIRUS Warning feature that is used to protect the IDE Hard Disk boot sector. If this function is enabled and an attempt is made to write to the boot sector, BIOS will display a warning message on the screen and sound an alarm beep.

Options: Disabled (Default) / Enabled